#### Chairman's Opening Remarks about KVK

#### a) Establishment details

S. No	Particulars	Details			
01	Name of the KVK	Tumakuru-A			
02	Postal address of the KVK	KRISHI VIGYAN KENDRA,			
		HIREHALLI, NH-4, TUMAKURU-572 168			
03	Telephone number/Fax/email	<b>Phone</b> : 0816-2243175			
	and Web site address of the	<b>Fax</b> :0816-2243177			
	KVK	Email: <u>iihrkvk@gmail.com</u>			
		Website: <u>www.iihrkvk.org</u>			
04	Name of the Host Organization	INDIAN INSTITUTE OF HORTICULTURAL			
		RESEARCH			
05	Postal address of the Host	INDIAN INSTITUTE OF HORTICULTURAL			
	Organization	RESEARCH			
		Hessaraghatta Lake Post,			
		Bengaluru-560089			
06	Telephone number/Fax/email	<b>Phone</b> :080-28466420-423			
	and Web site address of Host	Fax : 080-28466291			
	Organization	Email : <u>director@iihr.ernet.in</u> ,			
		iihrdirector@gmail.com			
		Website : <u>www.iihr.ernet.in</u>			
07	Sanction Order Details	2009-10 (vide ref no. F.No.16(1)/2009-AE-I of			
		Assistant Director General (AE), ICAR, New Delhi dt.			
		<u>24.03.2009</u>			
08	Name of the Programme	Dr. N. Loganandhan			
	Coordinator				
09	Total land area with the KVK in	16.24 ha			
	ha.				

#### b) Mandate

The overall mandate of the KVK is to develop and disseminate location specific technological modules at district level through Technology Assessment, Refinement and Demonstration and to act as Knowledge and Resource Centre for agriculture and its allied activities. The specific activities to carry out this mandate are:

- Conducting on-farm testing to identify the location specificity of agricultural technologies under various farming systems
- Organizing frontline demonstrations to establish production potential of various crops and enterprises on the farmers' fields
- Organizing need based training of farmers to update their knowledge and skills in modern agricultural technologies related to technology assessment, refinement and demonstration, and training of extension personnel to orient them in the frontier areas of technology development.

- Creating awareness about improved technologies to larger masses through appropriate extension programmes.
- Production and supply of good quality seeds and planting materials, livestock, poultry and fisheries breeds and products and various bio-products to the farming community.
- Work as resource and knowledge centre of agricultural technology for supporting initiatives of public, private and voluntary sector for improving the agricultural economy of the district.

Sl. No.	Sanctioned Post name	Name of the incumbent	Designation	Discipline	Qualifi cation	Pay Scale	Date of joinin g	Perman ent/ Tempor ary
01	Programme Co-ordinator	Dr. N.Loganandhan	PC	Agril. Extn	Ph.D. Agri.	37400- 67000+9000	02.08. 2013	Permanent
02	SMS	Sri K.N. Jagadish	SMS	Agril. Extn	M.Sc. Agri.	15600 - 39100+5400	17.11. 2009	Permanent
03	SMS	Sri P.R.Ramesh	SMS	Soil Science	M.Sc. Agri.	15600 - 39100+5400	17.11. 2009	Permanent
04	SMS	Sri Prasanth J.M	SMS	Horticulture	M.Sc. Horti.	15600 - 39100+5400	24.11. 2009	Permanent
05	SMS	Sri B. Hanumanthe Gowda	SMS	Plant Protection	M.Sc. Agri.	15600 - 39100+5400	02.12. 2009	Permanent
06	SMS	Smt RadhaR.Banakar	SMS	Home Science	M.Sc. Home Science	15600 - 39100+5400	05.12. 2009	Permanent
07	SMS	Dr. Somashekhar	SMS	Plant Breeding	Ph.D. Agri.	15600 - 39000+5400	07.12. 2009	Permanent
08	Prog.Asst. Farm Manager	Sri H.D.Parashuram	Farm Manager	Horticulture	B.Sc Horti.	9300 - 34800+4200	25.7.2 013	Permanent
09	Prog.Asst. (Computer)	Ms. Jyoti Appu Naik	Prog.Asst. (Computer)	Information Science	B.E. (IS)	9300 - 34800+4200	30.09. 2009	Permanent
10	Prog.Asst. (Lab Tech.)	Mr. Shashidhara K N	Prog.Asst. (Lab Tech.)	Crop Physiology	M.Sc. Agri.	9300 - 34800+4200	17.11. 2012	Permanent
11	Assistant	Vacant	Assistant			9300 - 34800+4200		
12	Jr. Stenographer	Smt Veda Kurnalli	Jr. Steno		DCP	5200 - 20200+2400	17.02. 2010	Permanent
13	Driver	Sri M.H. Ningappa	Driver	Tractor Driver	S.S.L.C.	5200 - 20200+2000	30.12. 2009	Permanent
14	Driver	Sri Hemanth Kumar	Driver	Jeep Driver	P.U.C.	5200 - 20200+2000	04.01. 2010	Permanent
15	Supporting staff	Sri G.Manjanna	Supporting Staff	Supporting Staff	S.S.L.C.	5200 - 20200+1800	01.11. 2011	Permanent
16	Supporting staff	Sri C.M. Anjanappa	Supporting Staff	Supporting Staff	-	5200 - 20200+1800	16.10. 2015	Permanent

#### c) Staff details

### Constitution of SAC and self-introduction by SAC members and invitees

The following is the constitution of Scientific Advisory Committee Meeting

Institute/Chairman of the Host Organization of NGO- Chairman2) ATARI, Zone VIII, Bengaluru- Member3) Director of Extension- do-4) Director/Head of the nearest ICAR Institute- do-5) Assistant Director of Research / Assistant Director of- do-5) Assistant Director of Research / Assistant Director of- do-6) Officials from Departments of Agriculture/Horticulture/-MembersAgricultural Engineering/Animal Husbandry/Fisheries/ Sericulture/ Irrigation/Forestry/Soil Conservation/ Social Forestry/Agro-forestry/Small Scale Industries/DIC etc.7) Project Director, ATMA- Member8) Lead Bank Official- do-9) Manager/AGM, NABARD- do-10) Official from AIR / FM Radio- do-11) Official from Doordarshan - do do-12) Two representatives from farmersMembers13) Two representatives from farm women- do-14) Programme Coordinator Other invitees if any-	1) Vice Chancellor of SAU/Director of ICAR	
<ul> <li>3) Director of Extension - do-</li> <li>4) Director/Head of the nearest ICAR Institute - do-</li> <li>5) Assistant Director of Research / Assistant Director of - do- Extension of SAU</li> <li>6) Officials from Departments of Agriculture/Horticulture/ -Members Agricultural Engineering/Animal Husbandry/Fisheries/ Sericulture/ Irrigation/Forestry/Soil Conservation/ Social Forestry/Agro-forestry/Small Scale Industries/DIC etc.</li> <li>7) Project Director, ATMA - Member</li> <li>8) Lead Bank Official - do-</li> <li>9) Manager/AGM, NABARD - do-</li> <li>10) Official from AIR / FM Radio - do-</li> <li>11) Official from Doordarshan - do-</li> <li>12) Two representatives from farmers Members</li> <li>13) Two representatives from farm women - do-</li> <li>14) Programme Coordinator Member Secretary</li> </ul>	Institute/Chairman of the Host Organization of NGC	) - Chairman
<ul> <li>4) Director/Head of the nearest ICAR Institute - do-</li> <li>5) Assistant Director of Research / Assistant Director of - do- Extension of SAU</li> <li>6) Officials from Departments of Agriculture/Horticulture/ -Members Agricultural Engineering/Animal Husbandry/Fisheries/ Sericulture/ Irrigation/Forestry/Soil Conservation/ Social Forestry/Agro-forestry/Small Scale Industries/DIC etc.</li> <li>7) Project Director, ATMA - Member</li> <li>8) Lead Bank Official - do-</li> <li>9) Manager/AGM, NABARD - do-</li> <li>10) Official from AIR / FM Radio - do-</li> <li>11) Official from Doordarshan - do-</li> <li>12) Two representatives from farmers Members</li> <li>13) Two representatives from farm women - do-</li> <li>14) Programme Coordinator Member Sandard Sandard</li></ul>	2) ATARI, Zone VIII, Bengaluru	- Member
<ul> <li>5) Assistant Director of Research / Assistant Director of - do- Extension of SAU</li> <li>6) Officials from Departments of Agriculture/Horticulture/ -Members Agricultural Engineering/Animal Husbandry/Fisheries/ Sericulture/ Irrigation/Forestry/Soil Conservation/ Social Forestry/Agro-forestry/Small Scale Industries/DIC etc.</li> <li>7) Project Director, ATMA - Member</li> <li>8) Lead Bank Official - do-</li> <li>9) Manager/AGM, NABARD - do-</li> <li>10) Official from AIR / FM Radio - do-</li> <li>11) Official from Doordarshan - do-</li> <li>12) Two representatives from farmers Members</li> <li>13) Two representatives from farm women - do-</li> <li>14) Programme Coordinator Member Secretary</li> </ul>	3) Director of Extension	- do-
Extension of SAU 6) Officials from Departments of Agriculture/Horticulture/ -Members Agricultural Engineering/Animal Husbandry/Fisheries/ Sericulture/ Irrigation/Forestry/Soil Conservation/ Social Forestry/Agro-forestry/Small Scale Industries/DIC etc. 7) Project Director, ATMA - Member 8) Lead Bank Official - do- 9) Manager/AGM, NABARD - do- 10) Official from AIR / FM Radio - do- 11) Official from Doordarshan - do- 12) Two representatives from farmers Members 13) Two representatives from farm women - do- 14) Programme Coordinator Member Secretary	4) Director/Head of the nearest ICAR Institute	- do-
<ul> <li>6) Officials from Departments of Agriculture/Horticulture/ -Members Agricultural Engineering/Animal Husbandry/Fisheries/ Sericulture/ Irrigation/Forestry/Soil Conservation/ Social Forestry/Agro-forestry/Small Scale Industries/DIC etc.</li> <li>7) Project Director, ATMA - Member</li> <li>8) Lead Bank Official - do-</li> <li>9) Manager/AGM, NABARD - do-</li> <li>10) Official from AIR / FM Radio - do-</li> <li>11) Official from Doordarshan - do-</li> <li>12) Two representatives from farmers Members</li> <li>13) Two representatives from farm women - do-</li> <li>14) Programme Coordinator Member Secretary</li> </ul>	5) Assistant Director of Research / Assistant Director of	of - do-
Agricultural Engineering/Animal Husbandry/Fisheries/ Sericulture/ Irrigation/Forestry/Soil Conservation/ Social Forestry/Agro-forestry/Small Scale Industries/DIC etc.7) Project Director, ATMA- Member8) Lead Bank Official- do-9) Manager/AGM, NABARD- do-10) Official from AIR / FM Radio- do-11) Official from Doordarshan- do-12) Two representatives from farmersMembers13) Two representatives from farm women- do-14) Programme CoordinatorMember Secretary	Extension of SAU	
Sericulture/ Irrigation/Forestry/Soil Conservation/ Social Forestry/Agro-forestry/Small Scale Industries/DIC etc. 7) Project Director, ATMA - Member 8) Lead Bank Official - do- 9) Manager/AGM, NABARD - do- 10) Official from AIR / FM Radio - do- 11) Official from Doordarshan - do- 12) Two representatives from farmers Members 13) Two representatives from farm women - do- 14) Programme Coordinator Member Secretary	6) Officials from Departments of Agriculture/Horticult	ure/ -Members
Social Forestry/Agro-forestry/Small Scale Industries/DIC etc.7) Project Director, ATMA- Member8) Lead Bank Official- do-9) Manager/AGM, NABARD- do-10) Official from AIR / FM Radio- do-11) Official from Doordarshan- do-12) Two representatives from farmersMembers13) Two representatives from farm women- do-14) Programme CoordinatorMember Secretary	Agricultural Engineering/Animal Husbandry/Fisher	ies/
7) Project Director, ATMA- Member8) Lead Bank Official- do-9) Manager/AGM, NABARD- do-10) Official from AIR / FM Radio- do-11) Official from Doordarshan- do-12) Two representatives from farmersMembers13) Two representatives from farm women- do-14) Programme CoordinatorMember Secretary	Sericulture/ Irrigation/Forestry/Soil Conservation/	
8) Lead Bank Official- do-9) Manager/AGM, NABARD- do-10) Official from AIR / FM Radio- do-11) Official from Doordarshan - do12) Two representatives from farmersMembers13) Two representatives from farm women- do-14) Programme CoordinatorMember Secretary	Social Forestry/Agro-forestry/Small Scale Industries	s/DIC etc.
9) Manager/AGM, NABARD- do-10) Official from AIR / FM Radio- do-11) Official from Doordarshan - do12) Two representatives from farmersMembers13) Two representatives from farm women- do-14) Programme CoordinatorMember Secretary	7) Project Director, ATMA	- Member
10) Official from AIR / FM Radio- do-11) Official from Doordarshan- do-12) Two representatives from farmersMembers13) Two representatives from farm women- do-14) Programme CoordinatorMember Secretary	8) Lead Bank Official	- do-
11) Official from Doordarshan - do-12) Two representatives from farmersMembers13) Two representatives from farm women- do-14) Programme CoordinatorMember Secretary	9) Manager/AGM, NABARD	- do-
12) Two representatives from farmersMembers13) Two representatives from farm women- do-14) Programme CoordinatorMember Secretary	10) Official from AIR / FM Radio	- do-
13) Two representatives from farm women- do-14) Programme CoordinatorMember Secretary	11) Official from Doordarshan - do-	
14) Programme Coordinator Member Secretary	12) Two representatives from farmers	Members
•	13) Two representatives from farm women	- do-
Other invitees if any	14) Programme Coordinator	Member Secretary
	Other invitees if any	

### (Accordingly the name and designation of the above listed committee members are given below) The following is the constitution of Scientific Advisory Committee Meeting

1)	Dr. M. Anandraj, Director, IIHR, Bengaluru	- Chairman
2)	Dr. Srinath Dixit, Director, ATARI, Zone VIII, Bengaluru	- Member
3)	Dr. K.Jagadeeshwara, Director of Extension, UAS-, Bengaluru	- Member
4)	Dr. Raghvendra Bhatta, Director, NIANP, Bengaluru	- Member
5)	Dr. Nuthan, D., Assistant Director of Research, UAS, Bengaluru	- Member
6)	Officials from State Department	- Members
	1. Dr. Roopadevi, JDA, Department of Agriculture, Tumaku	iru
	2. Dr. Savitha G., DDH, Horticulture, Tumakuru	
	3. Dr. N.Rajashekhar, DD, Animal Husbandry, Tumakuru	
	4. Sri H.K.Manjunath, SAD, Fisheries Dept, Tumakuru	
	5. Sri M.V.Chandru, DD, Sericulture, Tumakuru	
	6. Sri Y.Chakrapani, DCF, Social Forestry, Tumakuru	
	7. Sri L.Nagaraju, Joint Director, DIC, Tumakuru	
	8. Sri Nanjegowda, DD, Department of Women and Child D	evelopment, Tumakuru
7)	Dr. Ramesh N., PD, ATMA, Tumakuru	- Member
8)	Sri Jayaramaiah, Chief manager, Lead Bank Official, Tumakuru	- Member
9)	Sri J.S.Veerabhadran, DDM, NABARD, Tumakuru	- Member
10)	) Sri Shivaji Ganeshan, PC, Radio Siddhartha, Tumakuru	- Member

-	Iohan, DD Official from Doordarshan, Tumakuru - Member
-	- Members
	Sri Mahesh,N.M,, D.Nagenahalli, Koratagere, Tumakuru Sri Prabhakar, PanchvatiFarm, Urdigere Hobli, Tumakuru
13) Two r	representatives from farm women - Members
	Smt Mangalagowramma, Srirangabadavane, Tumakuru Smt Gowramma, Pemanahalli, Tumakuru
	oganandhan N., Sr. Scientist & Head, KVK, Hirehalli - Member Secretary
Other Inv	
1.	Sri Kumar Nagaraj, Member, APEDA, Karnataka.
2.	Dr. A.K.Chakravarthy, Head, Division of Entomology, IIHR, Bengaluru
3.	Dr. A.T.Sadashiva, Head, Division of Vegetable Crops, IIHR, Bengaluru
4.	Dr. M.R. Dinesh, Head, Division of Fruit Crops, IIHR, Bengaluru
5.	Dr. R. Venkattakumar, Head, TTC, IIHR, Bengaluru
6.	Dr. A.N. Ganeshmurthy, Prl. Scientist, SS & AC, IIHR, Bengaluru
7.	Dr. G. Karunakaran, Sr. Scientist & Head, CHES, Hirehalli
8.	Dr. T.Vasanthkumar, Prl. Scientist, Medicinal & Aromatic Plants, IIHR, Bengaluru
9.	Dr. B.T.Rayudu, Prl. Scientist, ATARI, Zone VIII, Bengaluru
10	. Dr. Rajendra Hegde, Head, NBSS & LUP, RC, Bengaluru
11	. Dr. B.K. Ramachandrappa, Chief Scientist, AICRPDA, UAS, Bengaluru
12	. Dr. Prakash Patil, Project Coordinator, AICRP (Tropical Fruits), IIHR, Bengaluru
13	. Dr. K. Hima Bindu, Prl. Scientist, Medicinal & Aromatic Plants, IIHR, Bengaluru
14	. Dr. M.A.Suryanarayna, Prl. Scientist, Medicinal & Aromatic Plants, IIHR, Bengaluru
15	. Dr. Chandrashekhar, MD, KMF, Tumakuru
16	. Dr Senthil Kumar, Scientist, CHES, Hirehalli
17	. Dr Saju George, Sr. Scientist & Head, KVK, Gonikoppalm
18	. Dr. Sukanya, Sr. Scientist & Head, KVK , Konehalli, Tiptur
19	. Dr. Prabhu Ganigar, Head, ARS, Pavagada
20	. Sri Vijaykumar T., Krisi Pandit Awardee, Thovinakere, Koratagere
21	. Engg. N.V. Ramamurthy, AWARE, NGO, Tumakuru
22	. Sri Dinesh Poojary, Project Director, SKRDP, NGO, Tumakuru
23	. Sri G.Raghu, Project Director, ORDER, NGO, Tumakuru
24	. Mrs. Jayalakshmi, WLARS, NGO, Madhugiri
25	. Mr. Raghavendra, Team Leader, DHAN Foundation, Tumakuru
26	. Sri Bhaskar, PD, Mother NGO, Sira

	Action Taken	<b>Report on</b>	the previous	SAC meeting
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Sl.	n Taken Report on the previou Recommendation	Proposed by	Action Taken (to be	Specific
No.		r	quantified)	constraints
				in taking action / for
				not taking
				action
1.	Exchange programmes	Dr.Sukanya,	SMS (Horticulture) & SMS	
	between two KVKs located	Sr. Scientist &	(Soil Science) Participated	
	in Tumakuru district is	Head, KVK,	in the Training Programmes	
	benefitting farmers of Tumakuru district, and this	Konehalli, Tiptur	organized by KVK Tiptur	
	should be continued.		as Resource persons on	
			Coconut production	
			practices and Soil, Water	
			and nutrient management.	
			Date: 13.10.14 & 06.11.14	
2.	Like Vegetables, flower		Production and sale of	
	crops can also be raised in		Protray based vegetable	
	pro-trays and given to farmers	Dr.Tejeswani,	seedlings initiated for roof	
	Tarmers	Principal Scientist,	and kitchen garden.	
		IIHR, Bengaluru	Around 95000 Nos. of Aster	
			Seedlings produced and	
		-	85000 Nos. were sold.	
3.	Flower crops can be		Flower crops like Tube	
	promoted in plantations like Coconut, Areca nut, etc., and		rose, Marigold taken as a	
	demos can be taken up in		demonstration at KVK farm	
	KVK Farm		and Aster was taken as a	
			FLD in the Farmers field as	
			well as KVK Farm.	
			Tuberose Seedlings sold16000Aster seedlings sold85000	
4.	ARYA Programme could be		Vocational Training: (Coconut	
	intensified.		friends, Mushroom	
			Cultivation) & IFS	
5.	For sustainable profit, IFS	Mr.J.S.Veerabhadran,	Programmes are organized	
	has to be promoted.	DDM, NABARD,	keeping Rural Youth in	
		Tumakuru	consideration.	
			Date No. of Desticipant	
			Participant s	
			10.11.14 20	
			to 15.11.14	
			18.11.2014 17	
			23.1.2015         14           1.8.2015         26	
			6.10.2015 21	
			13.1.2016 27	

4	Emphasia on Earrand		Tashnology baskstanning	
6.	Emphasis on Farmers'		Technology backstopping	
	Producer Organization (FPO)		for FPOs of ORDER NGO	
	is need of the hour.		Kasturi Rangappa Nayaka	
			Thotagarika Krushi	
			Uthpannagala Samaskarane	
			Mattu Marata Sowharda	
			Sahakarai (600 Farmers,	
			2015)	
			SWAVALAMBI Agriculture	
			Crop Producer Organisation	
			(200 Farmers, 2015)	
			Date: 6.11.2015 at	
			Kumbarahalli, Sira	
7.	Beekeeping programmes has		One training was organized.	
	to be conducted regularly and		Additional Five Honeybee	
	NABARD funded		boxes were erected at KVK	
	programme has to be		farm. Efforts were taken to	
	supported by KVK.		cover entire KVK Farm	
			with Honey bee boxes.	
			Date:14 to 16 July, 2014	
8.	Fodder Requirement in the		Through NIFTD, it is	
0.	country is 22 lakh MT. But		demonstrated (25 Nos.) that	
	the supply is only 15 lakh		green fodder yield was	
	MT. This gap has to be met	Dr.Manjunath,	increased to the extent of	
	out in the future. In this	A.D., Dept of	31.7% in NB Grass,	
	direction, NIFTD is a good	Veterinary	61.55% in Multicut fodder	
	initiative		sorghum and 37.97% in	
			fodder cow pea.	
			In an area of 5 ha	
			demonstration on Fodder	
			Crops were taken.	
9.	Foot and Mouth disease has		An awareness programme	
	become a major problem.		organized at D Nagenahalli in	
	Through effective programs this can be controlled		Collaboration with NIANP,	
	this can be controlled		Bengaluru on 25 <sup>th</sup> February	
			2015, One more awareness	
			programme organized at	
			Baraka village in	
			Collaboration with NIANP,	
			Bengaluru on 12 <sup>th</sup> December	
			2014 Meeting with State	
			Animal husbandry department was held at u on various	
			schemes of State Government.	
10.	Market rate issue has to be			
10.			More than 15 Nos. of	
	addressed and the		Training Programmes were	
	programmes which creates		organized in collaboration	
	awareness about the prices of		with marketing Board ,	

	montrat has to be -!-	Mr. Dhaaltar	Court of Karnatal in Ci	
	market has to be given	Mr. Bhaskar, MOTHER NGO,	Govt. of Karnataka in Sira,	
	importance.	Sira	Koratagere, Tumakuru,	
		Sila	C.N.Halli taluks of	
			Tumakuru District were	
			covered.	
11.	Programmes related to		NICRA Project, CA Project	
	Drought mitigation and Post		and focus on Drought	
	harvest technologies need be		mitigation-A book	
	given more focus		published on	
			Implementation of TDC of	
			NICRA- A case study from	
			D. Nagenahalli village of	
			Tumakuru district.	
			FLD on Value Addition	
			and Processing of Ragi is	
			being conducted and under	
			this Training programme	
			was also conducted on	
			10.9.2015	
12.	High density planting in	Dr. Prakash Patil,	FLD was initiated on HDP	
12.	banana is a good technology,	IIHR, Bengaluru	in Banana with minimal	
	where farmers are to be given		critical inputs.	
	full package.		A Field day was conducted	
	Tun package.		on 07.11.2015	
13.	Mass media approach has to	Dr.Krishnamurthy	KMAS, Radio and TV	
1.3.	be adopted for dissemination	, JD of Agriculture	Programmes, Social Media,	
	of the technologies	, D of fighteutere	-	
	C		(Facebook, Whats App) Coverage in Local News	
			-	
			papers are given due importance for	
			importance for dissemination of the	
14	The concention of L'		technologies.	
14.	The cooperation of Line		The Cooperation of All Line Departments – Agricultural,	
	department & NGO has to		Horticultural and NGOs like	
	be taken to achieve the		MOTHER, AWARE,	
	objective of the		AVISHKAR, SKRDP,	
	demonstration, training, etc.,		WLARS, ORDER , DHAN	
			etc., is kept in good spirit for	
			demonstration, training, etc.,	
15.	Exposure visit for farmers	Ms .Jayalaxmi,	Exposure visits were	
	have to be arranged.	WLARS NGO,	arranged as detailed below.	
		Madhugiri	Particulars Date	
			ICAR 16.07.2014	
			Foundation Day- IIHR,	
			<i>2 ay</i> 11111,	

			Devices	
			Bengaluru D.Naganahall	31.10.2014
			D.Nagenahall iNICRA	31.10.2014
			village	
			Panchavatti	14.11.2014
			Organic farm	
			International	9-10
			Exhibition at	January
			IIHR and	2015
			BIEC,	
1(	NT ' 4' 1 4 1		Bengaluru	
16.	New varieties have to be	Dr.B.T.Rayudu,		Kalyan, French
	included in the farmer's	Principal Scientist,	bean- Arka Su	vidha and
	participatory seed production	ATARI, Zone	Okra- Arka Aı	namika Seed
	programmes.	VIII, Bengaluru	Production is l	being
			implemented i	•
			-	
			villages of Tu	пакиги
			District.	
			Onion Seed Pr	oduction in
			farmers field-3	3 Acre
17.	Compiling the outcome of		A book on Act	
	technologies disseminated		Achievements	
			Hirehalli Tum	
	through OFT's and FLD's is		2015 (outcome	
	important.		technologies d	
			through OFT's	
			released on 7 <sup>th</sup>	
			during Kharif	Awareness
10	Transland is a main district	DuCaluar	Programme.	we and we late d
18.	Tumakuru is a major district	Dr.Sairam,	Water manage	
	growing Coconut, where	Principal Scientist,	topics are cove	
	water management is crucial.	ATARI, Zone	Coconut Frien	ds Training.
	Technologies pertaining to	VIII, Bengaluru	Date	Particulars
	this have to be demonstrated.		13.10.14 So	oil and Water
			М	lanagement
				Coconut-
				VK, Tiptur
				rip Irrigation
				Water use
				ficiency in
				oconut -
				VK, Tiptur
				rip Irrigation
				Soil, Water
				se efficiency Coconut -
			4	VK,
				irehalli
				HD on
				bconut
				evelopment
				OH at
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<ul> <li>19. New technologies of horticulture has to be established especially in Mango, Guava, etc.,</li> <li>Dr.L.B Naik, IIHR, Bengaluru</li> <li>Dr. Mango, Guava, etc.,</li> <li>Prostected cultivation in Vegetables and Flower Crops (160m2) were demonstrated in KVK Farm.</li> <li>Healer cum Sealer-384 kg, Fruit Fly Traps- 4000&amp; Mango Special - 1422 kg</li> <li>Around 105915 Nos.</li> <li>Seedlings of various fruits and plantation crops should be developed in KVK.</li> <li>Programme including fisheries.</li> <li>Dr. M.R.Hegde, Chairman, RPME Programme including fisheries.</li> <li>Dr. M.R.Hegde, Chairman, RPME Cell, IIHR, Bengaluru</li> <li>Dr. M.R.Hegde, Chairman, RPME breeds of Cattle, Five Bunur breeds of Sheep, Poultry breeds like Aseel, Kaveri, Chabro and local, 500 Nos. of common carps were introduced in farm</li> </ul>				Karadigere
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### Overall progress report and action plan for forthcoming season

- a) Agricultural scenario
  - i) Major farming systems/enterprises

Dry Land Agriculture Dry Land Horticulture Dairy

S. No	Name of the Operational Village	Crop/ Enterprise	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventi ons implement ed
1	Tumakuru Taluk Haraluru, Hirehalli, Kolihalli, Anupanahalli, Yallapura Urdigere,	Groundnut, Maize, Paddy,Ragi, Redgram,Tomato, Brinjal,Mango,Sa pota, Arecanut, Coconut, Banana Aster	Water Scarcity, Low Yield ,Old varieties, Poor Soil Management, Brinjal Shoot and Fruit Borer, Mono cropping	<ol> <li>Integrated Crop Management</li> <li>INM and Soil Test based Fertilizer application</li> <li>Integrated Pest &amp; Disease Management</li> <li>Post harvest technology in Vegetables and Fruits</li> </ol>	02- OFT 14 - FLD Trainings, Field days
2.	Koratagere Taluk D.Nagenahalli, Baichenahalli, Vadderahalli, Kollala	Maize, Paddy, Ragi, Redgram, Tomato, Banana, Groundnut, Mango, Aster, Frenchbean, Brinjal &Marigold	Water scarcity, low yield, local variety, Delayed monsoon, Monocropping	<ol> <li>Integrated Crop Management</li> <li>INM and Soil Test based</li> </ol>	3- OFT 9–FLD Training, Field days
3.	<b>Madugiri</b> <b>Taluk</b> Hanumanthapura Siddapura, Midigeshi	Groundnut, Ragi, Arecanut, Maize, Pomegranate, Tomato, Mango, Aster, Frenchbean, Brinjal, Marigold		<ul> <li>Fertilizer application</li> <li>Integrated Pest &amp; Disease Management</li> <li>Post harvest technology in Vegetables and Fruits</li> </ul>	
4	<b>Pavagada</b> <b>Taluk</b> Arasikere, Mangalavad, Madde	Groundnut, Pomegranate, Ragi, Maize, Tomato, Redgram ,Tamarind, Mango	Water Scarcity, Low yield, Local varieties, Low Soil Fertility, Monocropping, Bacterial Blight and wilt in Pomegranate	<ol> <li>Integrated Crop Management</li> <li>INM and Soil test based fertilizer application</li> <li>Integrated Pest &amp; Disease Management</li> </ol>	01-OFT 05 - FLD Trainings Field days
5	Sira Taluk Kataveeranah alli, Kallambela Sakshihalli, Kumbarahalli, Ganadahunase	Groundnut, Papaya, Toamto, Ragi, Maize,Redgram, Arecanut, Brinjal, Pomegranate, Mango,Aster, Frenchbean, Marigold	Local Variety, Tikka Disease in Groundnut, Low Yield, Pest and Disease in Redgram, Water Scarcity	<ul><li>1.Varietal Evaluation</li><li>2.Integrated Crop</li><li>Management</li></ul>	02-OFT 05 - FLD Trainings, Field days

# ii) Details of Problems and Thrust Areas

# Target and achievements of mandatory activities (2014-15)

	OFT				F	LD		
Numb	Number of OFTs Number of farmers		per of farmers	Number of FLDs		Number of farmers		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
04	03	12	09	16	16	119	81	
	Training				Extension Programmes			
Numbe	er of Courses	Number	r of Participants	Nu	umber of	N	umber of	
			Pro	grammes	pa	rticipants		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
76	48	2075	1868	353	1172	9330	39242	

Seed Prod	uction (Qtl.)	Planting materials (Nos.)		
Target	Achievement	Target	Achievement	
16.80	13.47	59350	45580	
Livestock, poultry stra	ins and fingerlings (No.)	Bio-proc	lucts (Kg)	
Target	Achievement	Target	Achievement	
-	-		Neem Soap- 2110	
			Pongamia Soap-924	
			Arka Microbial	
			Consortium – 2686	
			Mango Fruit Fly	
			Traps- 8763 Nos.	
			Mango Fruit Fly	
			Lures-13570 Nos.	
Value add	led products	Foliar Micronutrients (Kg)		
Target	Achievement	Target	Achievement	
-	Amla Squash –68 litres	-		
-	Amla Candy- 15 kg	-	Banana Special - 4345	
-	Mushroom Spawn- 276	-	Veg. Special -2066	
	kg			
-	Vegetable Seed Kit-2000	-	Mango Special-1422	
	No,s			
			Citrus Special-1100	

#### b) Major outcome of Technology Assessment and Refinement

- 1. Assessment of Areca nut -French bean intercropping system for high soil fertility and higher income: TO3 treatment i.e. Areanut + Frenchbean intercropping System has been recorded highest biomas production and income per ha per unit area (Rs. 2.18 lakhs) with high BC ratio 3.47 as compared to Farmers practice with BC ratio 3.02
- Assessment of Groundnut Varieties: Among the tested varieties, KCG-6 (7.82 qt/ha) found to be superior than other two varieties KCG-2 (7.08 qt/ha) and TMV 2(5.71 qt/ha). This KCG-6 (12.2%) Variety was also tolerant to foliar diseases compared to others (15.4% and 28.6%). BC ratio for KCG-6, KCG-2 and TMV-2 were 2.11, 1.90 and 1.53 respectively.
- **3.** Evaluation of Technology for Management of Pomegranate Wilt: T3 treatment comprises of application of Actinobacteria consortium was found very effective with least wilt incidence (9.50%) and highest plants recovered (84.21 %) when compared to farmers practice which recorded highest wilt incidence of 11 % and less recovery percentage (27.27%). The BC ratio of improved practice was recorded 1:7.93 when compared to farmers practice(1:7.93).

#### c) Major outcome of Frontline Demonstrations

- 1. Addressing Drought Vulnerability by Drought tolerant Ragi ML -365: The yield of Drought tolerant Ragi ML -365 (26.44 q/ha) has increased to the extent of 36.2 %.
- Combating drought vulnerability by Aerobic Paddy Cultivation: The performance of Aerobic paddy MAS-26 was found suitable for drought condition with an advantages like 43.75 % water saving, 80 % savings on seed material with no need of puddling and increased yield of 13.1 %. Farmers' feedback was that there was a drastic reduction of damage caused by rodents attack (due to dry field condition and free movement of cats).
- 3. Enhancement of Red gram yield through demonstration of BRG-4 variety: Demonstration of BRG-4 Red gram variety is recommended for higher yield which shown an increase of yield

of 12.12% compared to the local check. This variety recorded an average of 9.74 qt/ha (BCR-2.27) compared to local check 7.83qt/ha (BCR-1.82).

- 4. Demonstration of High yielding variety Arka Prabhat in Papaya: Through cultivation of improved Papaya variety Arka Prabhat farmer got 9.8 % more yield and the disease tolerance for Ring spot virus was almost same.
- 5. Demonstration of High density planting of Banana: HDP in Banana (G9) recorded highest yield (752 q/ha) with increased yield to the tune of 38.7% as compared to the farmers practice. HDP yields higher B:C ratio of 3.43 than that of check (3.01).
- 6. Demonstration of Dry land Horticulture Crop: Jamoon variety Dhoopdal has been introduced in Tumakuru and Koratagere taluk. The average height of plant is 9.2 feet. average number of branches per plant is 7.2
- 7. Cost effective eco friendly management of fruit fly through Pheromone traps in Mango: The maximum fruit infestation was recorded in farmers practice (47.80 %) when compared to demo plot (10.20%). The highest yield was recorded in demo plot (12.86 t / ha) with BC ratio of 1:3.71.
- 8. Management of Mango stem borer by Sealer cum Healer: The average of 6.20 grubs were reported before the treatment with Sealer cum Healer and 28.50 cm hole due to stem borer was fully healed up to 12.60 cm after the treatment.
- 9. Mango Harvester, Ripening chamber and Packing: Through adoption of Mango harvester, ripening chamber and packing mango fruits, farmers got Rs.44000/- additional income by investing Rs.4500/- for above mentioned inputs.
- Demonstration of Seedpro A microbial plant growth promoter against soil borne pathogens in Solanaceous Vegetable Crops: Demonstration of Seed Pro a microbial plant growth promoter : 9.55 % damping off was recorded in demo plot compared to check plot (28.64 %) with net increase in yield of 24.20 %. The maximum BC ratio was recorded in demo plot was 1:2.36.
- 11. Bio intensive Management of Brinjal Shoot and Fruit borer: Effective control of fruit and shoot borer in Brinjal through integration of pheromone trap, Release of *T.chilonis* and Bt spray. It was evident that 5.32 % shoot infestation was recorded in demo plot compared to check plot (30.11 %) and fruit infestation of 11.89 % compared to control plot (33.95%) with net increase in yield of 43.76 %. The maximum BC ratio was recorded in demo plot was 1:3.36.
- 12. Seed production of French bean Var. Arka Suvidha: Through French bean seed production, the income level was more with BC ratio of 3.12 compared to 2.26 if grown as vegetable purpose.
- 13. Demonstration of Arka Rakshak F1 resistant to Leaf Curl, Bacterial Wilt and Early Leaf Blight in Tomato gave an yield of 29 ton/ha compared to local check 17.30 ton/ha. BCR ratio for Demo hybrid was 3.35 compared to local check 1.70.
- 14. Use of Polythene mulch in Tomato: Tomato with polymulch technology yields more no of fruits, fruit weight per plant (48 & 97.5 g), with an average yield of 76.25 t/ha with B:C ratio of 4.62 compared to check 3.48. Labour saving on weeding and water saving nearly 50%. Additional yield of 10 t/ha worth of Rs. 40000 /- compared to check.
- 15. Cost effective Arka Microbial Consortium for Tomato production: Use of Arka Microbial Consortium in Tomato reduced the Chemical Fertilizer up to 25 per cent and also increased the yield 18.42 %.

16. Management of Nut Splitting in Arecanut: Nut splitting and nut dropping in Arecanut was reduced by demonstrating CPCRI technology with increase in crop yield to an extent of 12.50 %.

Category	Major thematic areas covered	No. of courses	No. of participants
1. Farmers & farm women	Cropping Systems	2	67
	Integrated Farming	1	22
	Off Season Vegetable Production	1	27
	Dryland Horticulture	3	142
	Integrated Crop Management	2	145
	Soil and Water Testing	8	244
	Soil fertility management	1	19
	Organic Farming	1	33
	Production and management technology in Plantation Crops	5	331
	Animal Nutrition Management	1	101
	Women empowerment	1	37
	Post Harvest Technology	1	45
	Mushroom production	2	24
	Feed and Fodder Technology	2	65
	Bio-fertilizer production	4	224
	Integrated Disease Management	1	31
2. Rural youth	Mushroom Production	1	10
3. Extension personnel	Integrated Pest Management	1	25
	Integrated Nutrient Management	1	18
	Production and Use of Organic Inputs	2	48
	Live stock Feed and Fodder Technology	1	33
4.Sponsored programmes	Commercial Production of Vegetables	1	27
	Crop Production and Management	1	22
	Post Harvest Technology and Value Addition	2	82
5.Vocational programmes	Coconut Friends	1	20
	Honeybee Keeping	1	26
Total		48	1868

### d) Details of Training Programmes conducted (2014-15)

### e) Extension Programmes Conducted (2014-15)

#### f) Major Extension Activities

	No. of	Participants			
Extension Activity	activities	Farmers	Extension Functionaries	Total	
Advisory Services	552	2774	123	2897	
Animal Health Camp	2	65	8	73	
Special Day Celebration	8	235	72	307	
Diagnostic Visits	99	209	17	226	
Exhibition	14	25853	3267	29120	
Exposure Visits	4	171	9	180	
Farmers Visit to KVK	397	1713	126	1839	

Field Day	5	491	29	520
Film Show	11	189	36	225
Kisan Mela	4	215	17	232
Lecture delivered	47	3301	109	3410
Scientists' visit to farmers field	26	75	23	98
Self Help Group Conveners meetings	3	113	2	115
Others if any (Pl. specify)	-	-	-	-
Total	1172	35404	3838	39242

# g) Other Extension Activities

Particulars	Number
Animal health camps	02
Leaflets / folders	02
News letter – E News Letter	04
News paper coverage	20
Radio Talks	05
Technical Articles	-
Technical Bulletins	-
Technical Reports	04
TV talks	03
Research Articles	03
Others if any (Pl. specify)Publications Abstracts	-
Total	43

# h) Production and Supply of Technology Products :2014-15

Category	Major crops /livestock/fisheries strains / bio-products produced and supplied	Quantity	Value (Rs.)	Number of farmers
Seed Materials –Varieties	Arka Varieties and	13.47	1042100	285
(Quintals)	UAS-B Varieties			
Vegetable Seed Kit-Nos.	All IIHR varieties	2000	200000	1800
Planting Materials –Varieties	IIHR Varieties and	45580	318200	152
(Numbers)	UAS-B			
Bio Products				
Bio-pesticide( Kg)	Neem Soap	2110	309025	1238
	Pongamia Soap	924	115500	464
Foliar Spray( Kg)	Banana Special	4345	651750	1512
	Vegetable Special	2066	300900	852
	Mango Special	1422	213000	820
	Citrus special	1100	16500	52
Bio-Fungicide (Kg)	Arka Microbial Consortium	2686	201450	110
Bio Agents (Nos.)	Mango Fruit Fly Traps-Nos.	8763	175260	730
	Mango fruit fly lures- Nos.	13570	271400	862
Others	Mushroom Spawn (Kg)	276	16560	123
Value Added Products	Amla Candy (Kg)	15	3750	35
	Amla Juice (Litres)	68	6800	60

### i) Convergence and Linkages

Sl. No.	Name of organization	Nature of linkage
1.	State Department of Horticulture	Trainings, FLD, Joint Diagnostic
		Survey
2.	State Department of Agriculture	Trainings, FLD, Joint Diagnostic
		Survey
3.	Watershed Department	Training and Collaborative Activities
4.	Department of Animal Husbandry and Fisheries	Trainings and Technical Information
5.	Department of Women and Child Development	Trainings
6.	BAIF NGO, Tiptur	Trainings and Technical Information
7.	ORDER NGO, Tumakuru	Trainings, FLD's and Technical
		Information
8.	AWARE NGO, Tumakuru	Trainings
9.	APART NGO, Tumakuru	Organic Farming and Group Approach
10.	MOTHER NGO, Tumakuru	Seed Village Concept
11.	UAS, Bengaluru	Trainings and FLDs
12.	UAS, Dharwad	Trainings and FLDs
13.	UHS, Bagalkote	Trainings and FLDs
14.	Veterinary University, Bidar	Trainings and FLDs

# j) Soil Water and Plant Analysis

	No. of Samj	ples	No. of Farmers	Amount realized (Rs.)
Category	Farmers in whose fields OFT/FLD were implemented during the reported period	Other Farmers		
Soil	20	603	610	62300
Water		414	408	20200
Plant		112	43	11200
Total	20	1129	1061	93700

# k) Human Resources Development

S. No.	Name of the Staff	Number of training programme s attended	Institutions under which trained	Major areas of knowledge gained	Programmes planned based on knowledge gained
1.	Dr. N.Loganandhan	2	NAARM, Hyderabad 9-11 June 2014	Technology Management in Agriculture for KVK Professionals	NABARD project, CA Project by CRIDA
			NAARM, Hyderabad 10 <sup>th</sup> Nov to 6 <sup>th</sup> Dec. 2014	Management Development Programme	OFT and FLDs in new areas
2.	Sri K.N.Jagadish	1	KVK Erode,	Participatory Impact	PRA Activities and

			Arepalayam Campus 19-24 Nov. 2014	Monitoring and Assessment (PIMA)	impact assessment of FLD and OFT. A book published and released on Kharif 2015
3.	Sri B. Hanumanthe Gowda	1	GBPUA &T, Pant Nagar, Uttarakhand 2-22 Oct.2014	Innovative approaches in Plant Disease Management	Plant Disease Management based on the advanced technologies of IT

### l) Action Plan in brief for the next season(s):- 2015-16

S. No.	Name of the Operational Village	Crop/ Enterprise	Major problems faced	Thrust areas identified to tackle the problems	Nature of interventions proposed to be implemented
1	D, Nagenahlli, Vaddarahalli, Sakshihalli, Baichenahalli	Ragi	Drought, Use of local varieties and low yield. Lack of knowledge on Processing, value addition and branding of Ragi products	ÎCM	FLD's, Trainings & Field days
2	Vaddarahalli, Sakshihalli, Midigeshi	Minor Millets	Lower income in Pigeon pea as a sole crop in rain fed condition. Pigeon pea is longer duration crop, prone to Biotic and Abiotic stresses leading to meager income. Interspaces between rows of Pigeon pea underutilized for initial 70 days after sowing.	ICM	FLD, Trainings & Field days
3	Sakshihalli, Midigeshi	Pigeonpea	Delayed Monsoon and Pod borer and sterile mosaic disease in Red gram	Popularization of HYV	FLD's, Trainings & Field days
4	Arasikere, Sakshihalli, Midigeshi	Groundnut	Tikka Disease , leaf minor, low income	Popularization of HYV /	OFT, Trainings
5	Balaenahalli,, Vaddarahalli , Belgumba	Tomato	Poor Soil and Nutrient Management, Water scarcity, Low keeping quality	ICM	FLD, Trainings & Field days
6	Midigeshi, Sakshihalli	Onion	Use of local low yielding varieties. Most of the farmers are using substandard local available seeds.	ICM	FLD, Trainings & Field days

7	Vadarahalli, Balenahalli, Arasikere	Mango	Mono cropping, Stem Borer Powdery mildew, Fruit fly and hoppers in Mango, lack of knowledge on PHT in Mango.	Integrated Pest & Disease Management and PHT	OFT, FLD's, Trainings & Field days
8	Balenahalli, Vaddarahalli	Banana	Low plant Density, poor nutrient management & lack of pre and post harvest technology management.	ICM	FLD, Trainings & Field days
9	Balenahalli, Vaddarahalli	Arecanut	Monocropping, Low soil fertility, Anabe Roga & Nut splitting	Cropping Systems	OFT, Trainings
10	Arasikere, Midigeshi	Pomegranate	Indiscriminate use of Fertilizers, Wilt & Bacterial Blight, Low yield	IPDM	OFT, FLD & Trainings
11	Balenahalli, Vaddarahalli	China Aster	Small size flowers, less shelf life and low yield Current yield- 8.6 t/ha Potential yield- 12.5 t/ha.	Popularization of HYV /	FLD, Trainings
12	Balenahalli, Midigeshi	Betelvine	Poor Soil aeration and nutrient Management, Low quality & yield	Nutrient Use efficiency	FLD , Trainings & Field days

# **Details of Training Programmes conducted 2015-16 (Apr - Dec)**

Category			Major thematic areas covered	No. of courses	No. of participants
Farmers	and	farm	Commercial Floriculture	2	60
women			Commercial Pomology	1	55
			Dryland Horticulture	3	125
			Production Technology in Pomegranate	1	52
			Sheep and Goat rearing	1	25
			Soil, Water Testing and their importance	12	392
			Income Generating Activity	2	46
			Organic Farming	8	272
			Production Management in Ragi and	1	15
			Redgram		
			Soil, Water Conservation	1	17
			IPM in Tomato	1	25
			Processing and Value Addition	4	107
			IDM in Horticultural Crops	4	109
			Offseason Vegetables	1	45
			ICM in Onion	1	27

	ICM in Banana	1	17
	ICM in Coconut	1	42
	Production Technology in Coconut &	1	12
	Arecanut		
	IDM in Redgram	1	40
	Seed Treatment	1	70
Rural youth	Mushroom Cultivation	2	49
	IIHR Technologies	2	58
	ICM in Coconut	1	20
Sponsored programmes	Post Harvest Technology	1	38
Total 54			

# Major Extension Activities 2015-16 (Apr - Dec)

	No. of		Participants	
Extension Activity	activities	Farmers	Extension Functionaries	Total
Advisory Services	212	1176	140	1316
Special Day Celebration	6	641	405	1046
Diagnostic Visits	39	114	7	121
Exhibition	6	17698	3357	21055
Exposure Visits	2	50	4	54
Farmers Visit to KVK	196	1409	107	1516
Field Day	5	228	25	253
Film Show	3	127	16	143
Group meeting	5	435	111	546
Kisan Mela	4	2849	792	3641
Lecture delivered	17	931	11	942
Soil health Camp	6	243	6	249
Total	501	25901	4981	30882

# Other Extension Activities 2015-16 (Apr - Dec)

Particulars	Number
Books	04
Electronic media	01
News letter – E News Letter	04
News paper coverage	04
Radio Talks	05
Technical Articles	01
Technical Bulletins	01
Technical Reports	04
TV talks	04
Total	28

Category	Major crops /livestock/fisheries strains /	Quantity	Value (Rs.)	Number of farmers
	bio-products produced and supplied			
Seed Materials –	Arka Varieties and UAS-B	9.46	66944	98
Varieties (Quintals)	Varieties			
Vegetable Seed Kit-Nos.	All IIHR varieties	1942	194200	133
Planting Materials – Varieties (Number)	IIHR Varieties and UAS-B	105915	420640	649
Livestock Materials	Fodder seeds	39.5 kg	19750	22
(Number)	CO Grass cutting	2650	2650	
· · ·	NB cuttings	Nos.		
<b>Bio Products</b>				
Bio-pesticide( Kg)	Neem Soap	2374	356100	86
	Pongamia Soap	3266	408250	39
	Sealer cum Healer	795	119250	14
Foliar Spray(Kg)	Banana Special	6317	947550	129
	Vegetable Special	4090	613500	111
	Mango Special	2708	406200	47
	Citrus special	1144	171600	26
Bio-Fungicide (Kg)	Arka Microbial Consortium	2005	190150	83
Bio Agents (Nos.)	Mango Fruit Fly Traps-Nos.	505	13900	24
Others	Mushroom Spawn (Kg)	159	12020	36
	Egg (Nos)	50	150	6
	Milk (Lits)	97	2910	6
Value Added Products	Amla candy (Kg)	98.8	29640	179
	Amla Squash (Nos)	287	37310	154
	Ragi Malt (Nos)	145	6750	58

# Production and Supply of Technology Products: 2015-16 (Apr - Dec)

### Soil Water and Plant Analysis 2015-16 (Apr - Dec)

Catagory	No. of Samples		No. of Farmers	Amount realized (Rs.)
Category	Farmers in whose fields OFT/FLD were implemented during the reported period	Other Farmers		
Soil	20	716	419	93550
Water		454	374	26650
Plant		10	8	950
Total	20	1180	801	121150

### m) Revolving Fund Status :-

Year	Opening balance as on 1 <sup>st</sup> April of previous year (Rs.)	Income during the year (Rs.)	Expenditure during the year (Rs.)	Net balance in hand as on 1 <sup>st</sup> April of current year (Rs.)
April 2014 to	2436261	4960840	3934815	3462286
March 2015				
Apr 2015- till	3462286	4028543	3203754	4287075
date				

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	ecurring Contingencies			
1	Pay & Allowances	8315000	8315000	8314575
2	Traveling allowances	114000	114000	118378
3	Contingencies			
Α	Stationery, telephone, postage and other	50000	50000	49893
	expenditure on office running, publication of			
	Newsletter and library maintenance			
	(Purchase of News Paper & Magazines)			
В	POL, repair of vehicles, tractor and			
	equipment's	50000	50000	50000
С	Meals/refreshment for trainees (ceiling up to			
	Rs.40/day/trainee be maintained)	20000	20000	20000
D	Training material (posters, charts,			
	demonstration material including chemicals			
	etc. required for conducting the training)	20000	20000	20000
Ε	Frontline demonstration except oilseeds and			
	pulses (minimum of 30 demonstration in a			
	year)	215000	215000	215000
F	On farm testing (on need based, location			
	specific and newly generated information in	17000	1	17000
a	the major production systems of the area)	45000	45000	45000
$\frac{G}{H}$	Training of extension functionaries	10000	10000	10000
H	Maintenance of buildings	0	0	0
Ι	Establishment of Soil, Plant & Water Testing	0		0
7	Laboratory	0	0	0
$\frac{J}{v}$	Library	0	0	0
K	IFS	10000	10000	10000
$\frac{L}{M}$	NIFTD FFS	10000	10000	10000
M		10000	10000	10000
Ν	Extension Activities	10000	10000	10000
DN	TOTAL (A)	8879000	8879000	8882846
<u>в. №</u> 1	on-Recurring Contingencies			
$\frac{1}{2}$				
2	Equipment's including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please			
5	specify)			
4	Library (Purchase of assets like books &			
7	journals)			
тот	AL (B)	0	0	0
	EVOLVING FUND	0	0	39,34,815
	ND TOTAL (A+B+C)	<b>8879000</b>	8879000	<u>12817661</u>
UNA		00/9000	00/2000	1201/001

# n) Utilization of KVK funds during the Previous Year 2014-15 (Rs. in lakh)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	ecurring Contingencies	<u> </u>	ŀ	
1	Pay & Allowances	8983000		6766437
2	Traveling allowances	90000		110606
3	Contingencies		•	
Α	Stationery, telephone, postage and other			
	expenditure on office running, publication of			
	Newsletter and library maintenance			
	(Purchase of News Paper & Magazines)	80000		79810
В	POL, repair of vehicles, tractor and			
	equipment's	100000		108915
С	Meals/refreshment for trainees (ceiling up to			
	Rs.40/day/trainee be maintained)	50000		49138
D	Training material (posters, charts,			
	demonstration material including chemicals			
	etc. required for conducting the training)	25000		25000
Ε	Frontline demonstration except oilseeds and			
	pulses (minimum of 30 demonstration in a			
	year)	138000		103336
F	NFSM(FLD)	123000		36950
G	On farm testing (on need based, location			
	specific and newly generated information in			
	the major production systems of the area)	29000		29000
H	Training of extension functionaries	0		
Ι	Maintenance of building	0		0
J	Extension Activities	50000		27500
K	Farmers' Field School	0		0
L	Library (Purchase of Journal, Periodicals, News			
	Paper and Magazines)	5000		0
M	NIFTD	0		0
Ν	Integrated Farming System(IFS)	0		
	TOTAL (A)	9673000	9672468	7336692
	on-Recurring Contingencies			
1	Works			
2	Equipment's including SWTL &			
2	Furniture			
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please			
A	specify)			
4	Library (Purchase of assets like books &			
-	journals)			-
	AL (B)	0	0	0
	EVOLVING FUND	0	0	3203754
GRA	ND TOTAL (A+B+C)	9673000	7254218	10540446

# Utilization of KVK funds during the year 2015-16 (Up to Dec. 2015-Rs. in lakh)

#### Salient achievements in detail

#### **SMS (Plant Protection)**

- **1. Problem identified**: Severe incidence of fruit and shoot borer and heavy pesticide residue in Brinjal
- Technology Intervention Undertaken: Bio- intensive Management Brinjal Shoot and fruit borer
- Mode of Implementation: Front Line Demonstration
- **Outcome:** : Effective control of fruit and shoot borer in Brinjal through integration of pheromone trap, Release of *T.chilonis* and Bt spray. It was evident that 5.32 % shoot infestation was recorded in demo plot compared to check plot (30.11 %) and fruit infestation of 11.89 % compared to control plot (33.95%) with net increase in yield of 43.76 %. The maximum BC ratio was recorded in demo plot was 1:3.36.
- Action for up-scaling: Production of *T.chilonis* eggs started at KVK, Hirehalli for supply to farmers.
- **Recommendation of the outcome:** Erection of pheromone trap @ 1 for 400 sq.m. (Lure changed once in 21 days), Release of *T.chilonis* @ 50,000/ha and Bt spray at peak flowering @ 1ml/L two times
- 2. Problem identified : Poor crop stand due to root rot and wilt in Solanaceous Vegetables
- Technology Intervention Undertaken : Seed treatment with Seed pro at the rate of 50gms/kg
- Mode of Implementation : Front Line Demonstration
- **Outcome:** A microbial plant growth promoter against soil borne pathogens in Solanaceous Vegetable Crops: Demonstration of Seed Pro a microbial plant growth promoter : 9.55 % damping off was recorded in demo plot compared to check plot (28.64 % ) with net increase in yield of 24.20 %.The maximum BC ratio was recorded in demo plot was 1:2.36
- Recommendation of the outcome : Seed treatment with Seed pro at the rate of 50gms/kg
- **3. Problem identified:** Heavy fruit fly infestation in Mango results in low yield and market value
- **Technology Intervention Undertaken :** Cost effective Eco friendly management of fruit fly through pheromone traps in Mango
- Mode of Implementation : Front Line Demonstration
- **Outcome:** The maximum fruit infestation was recorded in farmers practice(47.80 %) when compared to demo plot.(10.20%). The highest yield was recorded in demo plot (12.86 t /ha) with BC ration of 1:3.71.
- Action for up-scaling: 6.00 lakh fruit fly trap produced at KVK, Hirehalli for supply to farmers during last year.
- Recommendation of the outcome: Erection of Fruit fly traps (IIHR, Bengaluru) @ 15 Nos./ha
- 4. Problem identified : Incidence of stem borer in Mango
- **Technology Intervention Undertaken :** Removal and cleaning of infested portion and immature stages of stem borer, Swabbing with Dichlorovos@ 0.5% Pasting of Sealer Cum Healer at the infested portion
- Mode of Implementation : Front Line Demonstration
- **Outcome:** The average of 6.20 grubs were reported before the treatment with Sealer cum Healer and 28.50 cm hole due to stem borer was fully healed up to 12.60 cm after the treatment.
- **Recommendation of the outcome:** Healer cum sealer Production unit was established and supplied to the farmers.

SMS (Soil Science)

- **1. Problem identified**: Low water use efficiency & Low yield in Paddy.
- Technology Intervention Undertaken : Aerobic Paddy Cultivation MAS-26
- Mode of Implementation : Front Line Demonstration
- **Outcome** : The performance of Aerobic paddy MAS-26 was found suitable for drought condition with an advantages like 43.75 % water saving, 80 % savings on seed material with no need of puddling and increased yield of 13.1 %. Farmers' feedback was that there was a drastic reduction of damage caused by rodents attack (due to dry field condition and free movement of cats).
- Action for up-scaling /Recommendation of the outcome: 30 qt of MAS -26 variety seeds were produced at farmers' field of Vaddarahalli and D.Nagenahalli and supplied to 180 farmers.
- **2.Problem identified**: Delayed monsoon, Moisture stress, Use of low yielding, long duration varieties in Ragi
- Technology Intervention Undertaken : Drought resistance variety Ragi ML 365

#### The detail characteristics of the variety are

- Short duration (about 105 days)
- Medium plant height
- High yielding (Grain and fodder)
- Resistant to leaf spot, neck blast disease and lodging
- Good cooking quality
- Suitable for dry land agriculture and late sowing
- Mode of Implementation : Front Line Demonstration
- **Outcome:** The yield of Drought tolerant Ragi ML -365 (26.44 q/ha) has increased to the extent of 36.2 %.
- Action for up-scaling /Recommendation of the outcome: 800kg of ML -365 seeds has produced and supplied to 70 farmers.
- **3.Problem identified :** Severe nut splitting, dropping and yield loss in Arecanut
- Technology Intervention Undertaken : Management of nut splitting in Arecanut
- Mode of Implementation : Front Line Demonstration
- **Outcome:** Nut splitting and nut dropping in Arecanut was reduced by demonstrating CPCRI technology with increase in crop yield to an extent of 12.50 %.
- **Recommendation of the outcome:** FYM 12 kg/tree, RDF 100: 40: 140 NPK g/tree, Borax -30 g/tree + Zinc Sulphate.
- **4.Problem identified :** Low fertilizer use efficiency and low Soil fertility
- Technology Intervention Undertaken : Use of Arka Microbial Consortium in Tomato production
- Mode of Implementation : Front Line Demonstration
- **Outcome:** Use of Arka Microbial Consortium in Tomato reduced the Chemical Fertilizer up to 25 per cent and also increased the yield 18.42 %.
- Action for up-scaling/Recommendation of the outcome: Use of AMC in Tomato production @ 25gm/ltr or 1 kg in 50 ltrs of Water through drenching/ through drip irrigation.2 tons of AMC were produced and sold to 83 Nos. of Farmers in the district.

### SMS (Horticulture)

- **1.Problem identified** : Inefficient use of land, Weed menace , Low Soil Fertility and Low Income
- **Technology Intervention Undertaken** : Assessment of Arecanut Fenchbean Intercropping System for high Soil fertility and Higher income
- Mode of Implementation : On Farm Testing
- **Outcome** : Areanut + Frenchbean intercropping System has been recorded highest biomas production and income per ha per unit area (Rs. 2.18 lakhs) with high BC ratio 3.47 as compared to Farmers practice with BC ratio 3.02
- **Recommendation of the outcome**: Farmers are advised to take up Intercropping System as French bean for high Soil Fertility and additional income.
- 2. Problem identified : Less population and low yield in Banana
- Technology Intervention Undertaken : High Density planting in Banana
- Mode of Implementation : Front Line Demonstration
- **Outcome:** HDP in Banana (G9) recorded highest yield (752 q/ha) with increased in percentage of yield to the tune of 38.7 as compared to the farmers practice. HDP yields higher B:C ratio of 3.43 as of check (3.01)-
- **Recommendation of the outcome**: Spacing1.2 x 1.2x 2.0m with paired row Zigzag method.
- **3. Problem identified** : Water Scarcity , Weed menace , Labors scarcity , pest & diseases and Low yield
- Technology Intervention Undertaken : Use of Polythene mulch in Tomato
- Mode of Implementation : Front Line Demonstration
- **Outcome:** Tomato with polymulch technology yields more no of fruits, fruit weight per plant (48 & 97.5 g), with an average yield of 76.25 t/ha with B:C ratio of 4.62 compared to check 3.48. Labour saving on weeding and water saving nearly 50%. Additional yield of 10 t/ha worth of Rs. 40000 /- compared to check.
- **Recommendation of the outcome**: Farmers are advised to take up Poly mulching Technology with drip irrigation in Tomato production.
- SMS (Home Science)
- 1. Problem identified: Post harvest loss in Mango .
- **Technology Intervention Undertaken** : Demonstration of mango harvester, Ripening Chamber and Packing
- Mode of Implementation : Front Line Demonstration
- **Outcome**: By using Harvester, less damage during harvesting, right time ripening with ripening chamber, and got better price by packing in boxes so overall higher return. Through adoption of Mango harvester, ripening chamber and packing mango fruits, farmers got Rs.44000/- additional income by investing Rs.4500/- for above mentioned inputs.
- **Recommendation of the outcome**: by use of these scientific technologies farmers are able to get more additional income with better market price..

### SMS (Plant Breeding)

- 1.**Problem identified**: Market rate fluctuation of vegetables including French bean, during huge quantity production in same season, rate of French bean of vegetables comes down, there by huge loss to farmer.
- Technology Intervention Undertaken: Seed Production in French bean
- Mode of Implementation : Front Line Demonstration
- **Outcome**: Through French bean seed production, the income level was more with BC ratio of 3.12 compared to 2.26 if grown as vegetable purpose.
- Action for up-scaling / Recommendation of the outcome : Under RFS scheme French bean seed production is being taken up for large quantity production in KVK farm as well as in Farmers Field.
- 2. Problem identified : Low yielding Papaya varieties
- Technology Intervention Undertaken: Demonstration of High yielding Variety Arka Prabhat
- Mode of Implementation: Front Line Demonstration
- **Outcome**: Through cultivation of improved Papaya variety Arka Prabhat farmer got 9.8 % more yield and the disease tolerance for Ring spot virus was almost same.
- Action for up-scaling /Recommendation of the outcome: Farmers are advised to take up HYV Arka Prabhat and seeds are being produced at KVK Hirehalli.
- 3. Problem identified : Low yielding Redgram local varieties
- Technology Intervention Undertaken: Demonstration of High yielding Variety BRG-4
- Mode of Implementation: Front Line Demonstration
- **Outcome**: Demonstration of BRG-4 Red gram variety is recommended for higher yield which shown an increase of yield of 12.12% compared to the local check. This variety recorded an average of 9.74 qt/ha (BCR-2.27) compared to local check 7.83qt/ha (BCR-1.82).
- Recommendation of the outcome: Farmers are advised to take up HYV BRG-4
- 4. Problem identified: Lack of suitable variety for Tumakuru Dist. For sustainable yield.
- Technology Intervention Undertaken : Assessment of Groundnut varieties KCG-6
- Mode of Implementation : On Farm Testing
- **Outcome**: Among the tested varieties, KCG-6 (7.82 qt/ha) found to be superior than other two varieties KCG-2 (7.08 qt/ha) and TMV 2(5.71 qt/ha).This KCG-6 (12.2%) Variety was also tolerant to foliar diseases compared to others (15.4% and 28.6%). BC ratio for KCG-6, KCG-2 and TMV-2 were 2.11, 1.90 and 1.53 respectively.
- **Recommendation of the outcome**: KCG-6 variety can be promoted through front line demonstration.

Agenda Item No.06 Interactions and discussions

*Agenda Item No.07* Finalization of action points

*Agenda Item No.08* Any other agenda with the permission from the Chairman