

Annual Progress Report

On

“Mera Gaon Mera Gaurav”

2015-16

ICAR – Indian Institute of Sugarcane Research, Lucknow

Annual progress report for the period of 2015-16 upto March 31, 2016

Name of the Institute: ICAR – Indian Institute of Sugarcane Research, Lucknow

Table. Details of MGMT Team and status of benchmark survey of selected villages

Team	Name of the scientist with discipline	Name of the village	Bench mark survey Status
1	2	3	4
Team 1	1.Dr. A D Pathak , Plant Breeding 2.Dr. Rama Kant Rai 3.Dr. Ishwar Singh, Agronomy 4.Dr. Dinesh Singh, Plant pathology	1.Village- Bharthupur, P.O.-Mubarakganj, Pargana- Mangalsi, Tehsil- Sohaval, District- Faizabad (UP) 2.Village- Arkuna, P.O.- Barwa, Pargana- Mangalsi, Tehsil- Sohaval, Pargana- Mangalsi, District- Faizabad (UP) 3.Village- Deorakot, P.O.- Pilkhawa, Pargana- Mangalsi, Tehsil- Sohaval, District- Faizabad (UP) 4.Village-Thareru, P.O.- Thareru, Pargana-Mangalsi, Tehsil- Sohaval, District- Faizabad (UP) 5.Village-Mubarakganj, P.O.- Mubarakganj, Pargana- Mangalsi, Tehsil-Sohaval District- Faizabad (UP)	Complete
Team 2	1.Dr. O K Sinha, Plant Pathology 2.Dr. Raman Kapoor, Plant breeding 3.Dr. Rajesh Kumar, Agril. Statistics D4. Chandra Gupta, Agronomy	1.Village - Bishunpur, Post- Bachharawan Tehsil- Maharajganj, District- Raebareli (UP) 2.Village- Natvirnagar, P.O.- Bachharawan, Tehsil- Maharajganj, District- Raebareli (UP) 3. Village- Sundernagar, P.O.- Bachharawan, Tehsil- Maharajganj, District- Raebareli (UP) 4.Village- Pahurawan, P.O.- Bachharawan, Tehsil- Maharajganj, District- Raebareli (UP) 5.Village- Bagahi, P.O.- Bachharawan, Tehsil- Maharajganj, District- Raebareli (UP)	Complete
Team 3	1.Dr R S Dohare , Agril. Extension 2.Dr. A K Singh , Plant Pathology 3.Dr Sanjeev Kumar , Plant Breeding 4.Dr. M R Singh , Entomology 5.Dr K P Singh, Agronomy	1.Village-Bhadebhar'P.O.- Bhadebhar , Block- Machrehta, Tehsil-Misrikh, District- Sitapur (UP) 2.Village-Daulatpur (Chitretha), P.O.-Parsada, Block – Machrehta' Tehsil -Misrikh, District- Sitapur (UP) 3.Village-Beehat Veeram, P.O.-Beehat Veeram, Block- Machrehta, Tehsil-Misrikh, District-Sitapur (UP) 4.Bhagantapur (Gopalpur), P.O.- Bartal, Block Gondalamau, Tehsil-Misrikh, District- Sitapur (UP) 5. Basantpur (Adnapur), P.O.- Sarosa, Block Gondalamau, Tehsil – Misrikh, District- Sitapur (UP)	Complete
Team 4	1.Dr A K Shrivastava , Plant Physiology 2.Dr S N Singh, agronomy 3.Dr M Swapana, Plant breeding 4.Er Prasoon Verma , Agril. Engg	1.Village-Kotra, P.O.- Kotra ,Block- Biswan, Tehsil – Biswan, District Sitapur (UP) 2.Village-Benuwariya P.O.- Kotra ,Block – Biswan, Tesil – Biswan, District Sitapur (UP) 3.Village – Madharmau, P.O. -Kotra, Block – Biswan, Tesil – Biswan, District Sitapur (UP) 4.Village- Measmau P.O. – Sarsakhurd, Block - Biswan, Tesil – Biswan ,District Sitapur (UP) 5.Village-Karipur, P.O.- Gudera , Block- Biswan, Tesil – Biswan District Sitapur(UP)	Complete

Team 5	1.Dr M M Roy, Economic Botny 2.Dr A K Sah, Agril. Extension 3.Dr L S Gangwar, Agril.Economics 4.Dr Arun Baitha, Entomology 5.Dr S S Hasan, Computer sciences	1.Village-Bakharia (Persehra), P.O.- Purwa Dasapur Block – Biswan , Tehsil – Biswan District- Sitapur (UP) 2.Village-Bhagwanpur Januwa, P.O.- Biswan, Block - Biswan , Tehsil – Biswan, District- Sitapur (UP) 3.Village-Baldeonagar Manpur, P.O.- Manpur, Block – Biswan , Tehsil – Biswan,District- Sitapur (UP) 4.Village-Tikra, P.O.-Tikra,Block – Biswan , Tehsil – Biswan,District- Sitapur (UP) 5.Village-Shankarpur, P.O.- Tikra,Block – Biswan , Tehsil – Biswan, District- Sitapur (UP)	Complete
Team 6	1.Dr S K Shukla, Agronomy 2.Dr R K Singh, Genetics 3.Dr Radha Jain, Plant physiology 4.Mr S K Holkar. Plant Pathology	1.Village- Devipur- Madaripur , P. O.- Sidhauli, Block – Sidhauli',Tehsil- Sidhauli, District- Sitapur (UP) 2.Village-Kindhaulia, P. O.- Sidhauli, Block – Kasmanda ,Tehsil- Sidhauli, District- Sitapur (UP) 3.Village- Chandehra , P. O.- Kamlapur, Block –Kasmanda ,Tehsil- Sidhauli,District- Sitapur (UP) 4.Village- Basantpur Kamolia , P. O.- Sidhauli, Block – Kasmanda, Tehsil- Sidhauli,District- Sitapur (UP) 5.Mujaffarpur,P.O.-Sidhauli, Block – Sidhauli',Tehsil- Sidhauli, District- Sitapur (UP)	Complete
Team 7	1.Dr Amresh Chandra, Plant physiology 2.Dr Sanjeev Kumar, Agril. 3.Biotechnology 4.Dr R D Singh, Agril Engg 5.Dr V K Singh, Agronomy	1.Village- Thanapatti, P.O. –Kamlapur, Block- Kasmanda, Tehsil-Sindhauri, District – Sitapur (UP) 2.Village- Saraiya, P.O. –Kamlapur, Block- Kasmanda, Tehsil-Sindhauri, District – Sitapur (UP) 3.Village- Akabarpur, P.O. –Kamlapur, Block- Kasmanda, Tehsil-Sindhauri, District – Sitapur (UP) 4.Village- Bharthapur, P.O. –Kamlapur, Block- Kasmanda, Tehsil-Sindhauri,District – Sitapur (UP) 5.Village- Ludhaura,P.O.-Kamlapur ,Block- Kasmanda, Tehsil-Sindhauri,District – Sitapur (UP)	Complete
Team 8	1.Dr T K Srivastava, agronomy 2.Dr D K Pandey, Plant Breeding 3.Dr Diksha Joshi, Plant Pathology 4.Dr Rajendra Gupta, Agril Engg	1.Village-Garhi P.O. -Hydergarh , Block - Hydergarh District – Barabanki (UP) 3.Village-Bijapur P.O. – Hydergarh , Block - HydergarhDistrict – Barabanki (UP) 4.Village-Achhayi, P.O.-Achhayi District- Raebareli (UP) 5.Village –Basantpur Sakatpur P.O. – District – Raebareli (UP)	Complete
Team 9	1.Dr Ramji Lal, Plant Pathology 2.Dr AK Singh , Agronomy 3.Dr Sukhbir Singh, Agril. Engg 4.Dr Sangeeta Srivastava, Genetics and Cytogenetics	1.Village – Nanhey , P.O.- Pura Bahadur Block – Tandiawal , District Hardoi (UP) 2.Village – Bilhari , P.O.- Mansooranagar Block – Pihani , District Hardoi (UP) 3.Village – Uttara , P.O.- Hariyawan , Block – Hariyawan , District Hardoi (UP) 4.Village – Kunyan , P.O.- Mansooranagar , Block – Pihani ,District Hardoi (UP) 5.Village – Arua , P.O.- Mansooranagar , Block – Pihani ,District Hardoi (UP)	Complete
Team 10	Dr S K Dattamajumder, Plant Pathology Dr A K Sharma, Agril. Economis Dr Dilip kumar, Agril,Engg Dr S R Singh, Soil Sciences	1.Village- Maholia kalan ,Block- Biswan, Tehsil – Biswan, District – Sitapur (UP) 2.Village- Madanapur,Block- Biswan, Tehsil – Biswan , District – Sitapur (UP) 3.Village- Mahariya Kamhariya, Block- Biswan, Tehsil – Biswan, District – Sitapur (UP) 4.Village- Belva Bashahiya, Block- Biswan, Tehsil – Biswan, District – Sitapur (UP) 5.Village -Semra khurd, Block- Biswan, Tehsil – Biswan, District – Sitapur (UP)	Complete

Team 11	1.Dr J Singh , Plant Breeding 2.Dr V P Singh, Agronomy 3.Dr S I Anwar, Agril. Engg 4.Dr Puspa Singh, organic Chemistry	1.Village- Sahani , P.O.- Rozagaon, Block –Sidhauri ,District – Faizabad (UP) 2.Village- Sidhauna , P.O.- Rozagaon ,Block –Rudauli, District – Faizabad (UP) 3.Village- Sarai Ahmed , P.O.- Rozagaon, Block –Rudauli, District – Faizabad (UP) 4.Village- Junaidpur, P.O.- Girauda , Block –Rudauli, District – Faizabad (UP) 5.Village- Bhitaura, P.O.- Bhelsar, Block –Rudauli, District – Faizabad (UP)	Complete
Team 12	1.Dr A K Singh, Agril. Engg 2.Dr P K Singh, plant Breeding 3.Dr S P Singh, plant physiology 4.Dr R R Verma, Soil Sciences	1.Village- Sahani , P.O.- Rozagaon, Block –Sidhauri ,District – Faizabad (UP) 2.Village- Sidhauna , P.O.- Rozagaon ,Block –Rudauli, District – Faizabad (UP) 3.Village- Sarai Ahmed , P.O.- Rozagaon, Block –Rudauli, District – Faizabad (UP) 4.Village- Junaidpur, P.O.- Girauda , Block –Rudauli, District – Faizabad (UP) 5.Village- Bhitaura, P.O.- Bhelsar, Block –Rudauli, District – Faizabad (UP)	Complete
Team 13	1.Dr D R Malaviya, plant Breeding 2.Dr. K K Singh, Agronomy 3.Dr. A K Mall, Plant Breeding	1.Tikoli, P.O.-Atariya, Block – Sidholi , District- Sitapur (UP) 2. Nai Basti, P.O.-Gangaganj, Block – Sidholi , District- Sitapur (UP) 3. Kodariya, P.O.-Kodariya, Block – Sidholi , District- Sitapur (UP)	Complete
	Total villages	63	

Table 2 Activities carried out upto 1st March, 2016 in the selected villages

Team	Visit to Villsges		Gosthies /Interface / Meeting Conducted		Demonstration conducted		
	No. of visit	No. of farmers	No.of Gushies /Interface / Meeting Conducted	No. of farmers	Title of the demonstration	No. of demonstration	No. of farmers
1	2	3	4	5	6	7	8
Team 1	3	62	2	220	-	-	-
Team 2	2	92	2	85	-	-	-
Team 3	3	364	2	185	-	-	-
Team 4	2	140	2	111	-	-	-
Team 5	2	53	2	120	-	-	-
Team 6	3	463	2	312	-	-	-
Team 7	1	89	1	282	-	-	-
Team 8	3	181	2	241	-	-	-
Team 9	2	145	2	153	-	-	-
Team 10	2	65	1	65	-	-	-
Team 11	1	80	1	80	-	-	-
Team 12	2	90	1	180	-	-	-
Team 13	3	129	2	129	-	-	-
Total	29	1953	21	2162	-	-	-

Table -2 continue...

Team	Training conducted		Mobile bases advisory		Literature support provided		Input support	
	No. of visit	No. of farmers	No. of farmers	No. of advisories	No. of literature	No. of farmers	Area(ha)	No. of farmers
9	10	11	12	13	14	15	16	17
Team 1	-	-	145	136	5	25	37	180
Team 2	-	-	6	2	32	32	0	60
Team 3	-	-	30	5	105	105	150	107
Team 4	-	-	0	0	80	30	15	92
Team 5	-	-	0	0	20	20	46	55
Team 6	-	-	158	138	193	217	367	114
Team 7	-	-	44	27	20	20	69	94
Team 8	-	-	285	147	23	23	20	40
Team 9	-	-	0	0	36	36	0	145
Team 10	-	-	8	6	20	20	0	16
Team 11	-	-	270	22	20	20	0	50
Team 12	-	-	80	180	236	236	0	360
Team 13	-	-	5	5	0	0	0	30
Total	-	-	1031	668	790	784	704	1353

Table -2 continue...

Team	Linkage created with other departments/agencies (Name)	Problem Diagnosed		Awareness created	
		General problem	Agriculture problem	Subject matter	No. of farmers
18	19	20	21	22	23
Team 1	1. Sugar mill 2. State department of Agriculture	1. Poor infrastructure of school as the being conducted under the tree. 2. Lack of money for inputs. 3. Poor sanitation 4. Blue bull menace 5. Poor road and drainage system in the village	1. Long duration (45 days) germination in sugarcane 2. Application of fertilizers without soil test based 3. Root rotting in paddy 4. Source of insecticide availability is not authentic 5. Prevalence of pest (<i>Hazara</i> insect in <i>Colocasia</i> , yellow mosaic in cucurbits 6. Trash burning 7. Declining soil health (% SOC<0.25) 8. Wilt in chilli and lentil 9. Lack of efficient irrigation facility 10. Insect infestation	1. Varieties of different crops 2. Crop production in declining organic carbon 3. Sugarcane trash and residue management 4. Reasons for low productivity 5. Pest and disease control, mechanization , planting techniques for wider row spacing, Adoption of FIRB technologies 6. Planting sugarcane at wider space 7. Mechanization in sugarcane 8. Sugarcane trash management (soil incorporation of trash and crop residue rather burning sugarcane trash)	220

			in cattle		
Team 2	1.ICAR- IISR Lucknow	1. Frequent power cut 2. Saline and sodic soils	1. Low yield due to poor quality in seed for rice - wheat cropping system. 2. Blue bull damaging crops 3. Suitable varieties of rice and wheat	1. Appropriate agencies for quality seed 2. Management of weeds in wheat. 3. Availability seeds of new rice variety at ICAR CSSR Regional Station , Lucknow	140
Team 3	1.Dalmia Bharat Sugar and Industries, Ramgarh and Sitapur	1. Blue bull and Wild boar menace 2. No or poor electricity 3. Labour scarcity for	1. No water for irrigation in canal 2. Insect problem termite, Pyrilla, borers	1. Prohibition of trash burring in sugarcane field 2. Use of new sugarcane varieties of high sugar recovery	110
Team 4	1.The Seksaria Biswan Sugarmill Ltd. Biswan, Sitapur	1. Poor education facilities 2. No Knowledge about Government sponsored scheme. 3. Improper implementation of schemes like MNAREGA, swachh bhara abhiyan 4. No linking of MNAREGA with to agriculture 5. No electricity connection 6. Difficulties in accessing to financial facilities from the banks 7. Problem of stray animals like cattle, blue bull, wild boar leading to losses 8. Poor irrigation facility 9. Improper services of cleaning staff 10. Improper facilities for schooling 11. Improper services of Aangawadi staff and ASHA worker	1. Wilt and top borer incidence in Co 0238 and Co 0239 varieties of sugarcane 2. Curling of leaves of potato and chilli 3. Drying up from root in Mentha 4. Wilt in masoor dal crop 5. Incidence of early shoot borer, top borer and pyrilla in sugarcane crop 6. No financial assistance for irrigation facilities like tube wells, drip irrigation, etc 7. Leaf roller attack in paddy 8. Improper agricultural practices 9. Problem of availability of quality seeds and other inputs. 10. Termite problem in sugarcane 11. Lacks of visit by the cane development officials in the villages	1. Intercropping of cole crops in sugarcane during autumn 2. Custom hiring practices for machinery for sugarcane agriculture 3. Planting sugarcane using cutter planter 4. Possibility of establishing a gur making unit 5. Establishing a central processing facility for daal/ other crops 6. creating Self-help group (SHG) 7. Proper planting techniques in intercropping of Lyhi in sugarcane. 8. Trench method of planting of sugarcane 9. Bio control of pyrilla with <i>Epiricania</i> 10. Awareness about quality planting material 11. Schemes related facilities for irrigation and farm machinery 12. Use of suitable machinery for sugarcane cultivation 13. Government policies and schemes facilitating the agriculture 14. Use of scientific weedicides(SEMPARA) against sedges 15. Awareness about maintaining the quality of mid-day meals at school 15. General maintenance and cleanliness in the school and its surrounding	92
Team 5	1. Cane Cooperative Society 2. Cane Development Council 3. Seksaria	1. Lack of higher education institution 2. Poor electricity supply for Irrigation	1. Imbalance use of inorganic fertilizers 2. Water logging	1. Cane seed production 2. Entrepreneurship 3. Healthy cane seed production 4. Early maturing new cane varieties 5. Ratoon promotor	77

	Biswan Sugarmill				
Team 6	1.KVK- Ambarpur	1. Blue bull and wild pig menace 2. Shortage of electricity supply	1. Soil organic carbon ranged from 0.30-0.07 2. Scarcity of irrigation water 3. Infestation of stem fly in pea was diagnosed 4. Non availability of good quality seed and varieties	1. Soil nutrients 2. Water saving technology 3. Intercropping system with autumn sugarcane 4. Sugarcane early varieties Colk 94184 & CoPk 05191 5. Solar system as an alternative source of electricity	715
Team 7	1. KVK , Sitapur-1	1. Non availability of water for irrigation 2. Blue bull menace 3. Difficulties in selling of sugarcane 4. Shortage of electricity supply 5. No water in canal for irrigation	1. Infestation of pyrilla in sugarcane 2. Non availability of green fodder 3. Non availability of quality seeds 4. Rice gandhi bug 5. Thin sugarcane 6. Non availability of sugarcane seed	1. Awareness the farmers about soil test 2. Awareness about intercropping with sugarcane 3. Awareness about planting new varieties of sugarcane 4. Soil and water conservation in climate change 5. Scientific management of mango orchard	250
Team 8	1. Haidergarh Sugar Mill	1. Lack of proper irrigation facilities. The problem was compounded by poor rains during 2015.	1. Blue bull menace 3. Diseases and insect pests: High incidence of Pyrilla and high infestation of Leaf folder in Paddy observed during 2015. 4. Problem of spurious pesticides.	1. Information provided on suitable high yielding varieties of different crops for the region, their cultivation practices, seed production etc. 2. Management of soil fertility through optimal use of organic and inorganic fertilizers 3. Management of pests and diseases in various crops	290
Team 9	1. DSCL, Sugar Mills, Hariyawa, Hardoi and State Govt. Staff	1. Lack of electricity	1. Lack of seed of improved varieties 2. Lack of irrigation facilities.	1. Improved technology for sugarcane cultivation 2. Improved varieties of cane, wheat and mustard	290
Team 10	1. Sekeria Sugar Mills, Biswan , Sitapur 2. Cane Development Department	1. Lack of all-weather road for cane transport in the village 2. Poor status of approach roads of villages and other basic infrastructure 3. Repair and maintenance of tractor and implements	1. Low lying area and problems of water logging during normal fish flood	1. Soil fertility 2. Sugarcane trash and residue management 3. Reasons for poor productivity 4. Pest and diseases	100
Team 11	1. Rosa Sugar mills, Rosagaon	1. Capital deficiency amongst farmers 2. Poor roads and drainage system in all villages 3. Poor Infrastructure of Schools – classes being conducted under trees	1. Trash burning – A common practice 2. Declining soil health (% SOC < 0.25) 3. Blue bull menace : Severe obstruction to vegetable and pulses cultivation 4. Wilt (Chili and Lentil) 5. Root rotting in Paddy	1. Soil fertility (Declining soil organic carbon) 2. Sugarcane trash and residue management (Soil incorporation of trash & crop residues rather than burning sugarcane trash) 3. Reasons for poor productivity 4. Handling pest and diseases	50

			<p>6. Pest problems viz. Hazara insect attack in Colocasia</p> <p>7. Yellow mosaic in Cucurbits</p> <p>8. Poor irrigation channels and roads in fields</p> <p>9. Capital deficiency & lack of facility to sell produces at remunerative prices.</p>		
Team 12	<p>1. Seksaria Sugar Mills, Biswan, Sitapur</p> <p>2. Cane Council of Biswan, Sitapur</p> <p>3. KVK, Sitapur</p>	<p>1. Safe drinking water</p> <p>2. Scientific management of waste</p>	<p>1. Less rains just after August, 2015 followed by higher incidence of pyrilla and termite in sugarcane</p> <p>2. Inadequate knowledge about soil fertility level and imbalance fertilizer application and little use of FYM</p>	<p>1. Soil health management</p> <p>2. Mechanization agriculture</p> <p>3. Control pests and diseases in sugarcane</p> <p>4. Planting techniques in sugarcane</p> <p>5. Standard package of practices of sugarcane cultivation</p>	802
Team 13	<p>1. KVK, Ataria, Sitapur</p>	<p>1. Crop damage due to blue bull</p>	<p>1. Lack of machinery for sole and intercropping in sugarcane.</p> <p>2. Irrigation constraints due to poor rains and drying of tube well.</p>	<p>1. Bharat Swachh abhiyan (Cleanliness) and nutrition</p> <p>2. Cultivation of grasses for animal fodder</p>	911
Total					3177

Table 3. Any other activities carried out upto 1st March, 2016 in the selected villages

Team	Name of the activity		No. of farmers
1	2	3	4
Team 1	1. Soil health card	5	25
Team 2	1. Methods of soil sample collection from the fields 2. Soil health card	32	32
Team 3	1. Soil health cards 2. Literature of different Government scheme	105	105
Team 4	1. literature about ICAR-IISR Lucknow and technologies developed were provided 2. Soil sample analysis results with suitable recommendations	50	50
Team 5	1. Soil health cards	20	20
Team 6	1. Soil health cards 2. Package of practices of sugarcane	42	42
Team 7	1. Soil health cards	20	20
Team 8	1. Soil health cards	23	23
Team 9	1. Information brochure about ICAR-IISR	36	36

	2. Soil health cards		
Team 10	1. Information brochure about ICAR-IISR 2. Soil Health card	20	20
Team 11	Soil health cards	20	20
Team 12	1. Package of practices of sugarcane cultivation. 2. How to collect soil sample	296	296
Team 13	1. Soil health cards	20	20
Total		689	709