

**Awareness-cum-Suveillance Programme for management of
Major pests in Soybean-Cotton based cropping System
in Maharashtra (2009-10)**

**A Collaborative Programme
by**

State Agriculture Department, Maharashtra, Pune
National Centre for Integrated Pest Management (NCIPM), New Delhi
Panjabrao Deshmukh Krishi Vidyapeeth (PDKV), Akola
Marathwada Agricultural University (MAU), Parbhani
Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri
Central Institute for Cotton Research (CICR), Nagpur
Directorate of Soybean Research (DOSR), Indore
Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad

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Awareness-cum-Suveillance Programme for management of Major pests in Cotton-Soybean based cropping System in Maharashtra (2009-10)

Introduction :

The lepidopteran pests especially *Helicoverpa armigera* and *Spodoptera litura* are voracious feeders and polyphagous in nature. The epidemic appearance and vast devastation of crops are common features in many cropping systems. In cotton the cyclic epidemics of these pests are regular phenomena. In Maharashtra the epidemic appearance of the two pests on cotton during late 90's caused severe yield losses. In general the area under soybean crop has increased phenomenally in Vidharba region in the last two years due to near good average yield per ha and fetching of good market prices. The pest also shifted accordingly and epidemic scenario of *S. litura* coupled with *H. armigera* and other leaf eating caterpillars in soybean in Maharashtra especially in Vidharba region was noticed during the last season (2008-09). This had caused severe yield losses in Soybean in a major area in Maharashtra and around 7.5 lakh ha area in Vidharba alone. Establishment of an intensive pest monitoring mechanism and advisory / awareness system, if put in place, would help in overcoming such an epidemic situations. Keeping this in view, an "Awareness-cum-surveillance programme for management of major pests in cotton-soybean based cropping system in Maharashtra" is proposed.

Area of Operation :

In Maharashtra, cotton and soybean are the two major crops, which require almost same soil and climatic conditions. They occupy an area of 30 lakh hectares each in the state. The major area of operation of the project would be in the 28 districts growing soybean as given below. In this programme, the main emphasis would be placed on soybean as well as cotton as these are common hosts for the major pests such as *S. litura* and *H. armigera*.

Table : List of districts covered under this project and the area of cotton & soybean (2008-09 data)

Name of Division	Name of District	Area (in ha)	
		Soybean	Cotton
Nashik	Nashik	40209	25660
	Dhule	17980	109879
	Nandurbar	28725	56001
	Jalgaon	18232	430727
Pune	Pune	2400	100
	Ahmadnagar	57300	49100
	Solapur	2600	100
Kolhapur	Satara	28901	1129
	Sangali	54419	2197
	Kolhapur	58685	110
Aurangabad	Aurangabad	6200	250900
	Jalna	38800	278400
	Beed	77800	201500
Latur	Latur	212900	2600
	Osmanabad	25000	1800

	Parbhani	75000	211400
	Hingoli	129870	105700
	Nanded	163200	259300
Amravati	Amravati	372706	113860
	Bulldana	236410	246845
	Akola	138160	169580
	Washim	229125	51345
	Yeotmal	314232	373802
Nagpur	Chandrapur	183457	49138
	Gadchiroli	9532	909
	Wardha	253892	68737
	Nagpur	305478	43991
	Bhandara	8362	0
Total	28	3089575	3104810

Mode of Operation :

The programme consists of two parts i.e., pest monitoring-cum-surveillance based advisory system and awareness creation. At the state level the steering committee would be formed with the members from different organizations and responsibilities as given below;

Steering Committee :

One representative each from

1. State Agriculture Department, Maharashtra, Pune
2. National Centre for Integrated Pest Management (NCIPM), New Delhi
3. Central Integrated Pest Management Centre (CIPMC), Nagpur.
4. Dr. Panjabrao Deshmukh Krishi Vidyapeeth (PDKV), Akola
5. Marathwada Agricultural University (MAU), Parbhani
6. Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri
7. Central Institute for Cotton Research (CICR), Nagpur
8. Directorate of Soybean Research (DOSR), Indore
9. Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad

Responsibilities :

- To coordinate the overall programme through monthly meetings
- To assign the work to different stake holders of the programme and to supervise its' proper implementation

Steering Committee Constitution :

Chairman - Sh. Prabhakar Deshmukh, Commissioner of Agriculture, Government of Maharashtra

Co-Chairman - Dr.O.M.Bambawale, Director, National Centre for Integrated Pest Management, New Delhi

Members :

Sh.Ashok Lokande, Joint Director of Agriculture (Extension), State Agriculture Department, Pune

Dr.Ajith Chandele, Head, Department of Entomology, Marathwada Agricultural University, Rahuri

Dr.B.B.Bhosle, Head, Department of Entomology, Marathwada Agricultural University, Parbhani

Dr.U.P.Barkhade, Head, Department of Entomology, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola.

Dr.K.R.Kranthi, Director(Acting), Central Institute for Cotton Research, Nagpur

Dr.Amarnath Sharma, Principal Scientist, Directorate of Soybean Research, Indore

Dr.G.G.S.N.Rao, Project Coordinator (ACRIPDA), Central Research Institute for Dryland Agriculture, Hyderabad

Member Secretary - Sh.Arjun Phule, Deputy Director of Agriculture (Plant Protection), State Agriculture Department, Pune.

Technical Coordinator - Dr.P.Jeyakumar, Senior Scientist, National Centre for Integrated Pest Management, New Delhi

Stakeholders and their Responsibilities :

S.no.	Organisation	Responsibility
1	NCIPM, New Delhi	<ul style="list-style-type: none"> • To develop on-line monitoring system and pest based advisory system • To attempt for the generation of automatic map based GIS application system • To assist in training of the surveillance team and pest monitoring team • To arrange for GPS system, Camera, monitoring kit and inputs • To collaborate in developing IPM module • To develop popular dissemination material • To coordinate the overall programme of pest monitoring
2	State Agriculture Department	<ul style="list-style-type: none"> • To train the field staff by the senior staff of the department • To train the farmers on IPM module by the field staff • To popularize the IPM module through posters / leaflets , etc. • To monitor the pest population in different villages at Subdivisional level and make it available online. • To arrange for laptop with internet connection for pest monitoring units • To alert the farmers based on pest monitoring in case of alarming situations
3	Dr.PDKV - Akola, MAU – Parbhani, and MPKV – Rahuri	<ul style="list-style-type: none"> • To train the Master Trainers of State Agriculture Department in respective districts. • To train pest surveillance staff in respective districts. • To assist in pest monitoring and development of IPM module • To interpret and issue pest advisory at twice a

		week (Friday & Monday before 10.00 am)
4	DOSR, Indore	<ul style="list-style-type: none"> • To help in formulation of IPM strategies in soybean programmes • To arrange for exposure visits for the Master Trainers of St. Agril. Dept. • To monitor the pest population through on line data reports and to assist in alarming situations through field visits • To get feedback for future anticipatory research for developing IPM components
5	CICR, Nagpur	<ul style="list-style-type: none"> • To help in formulation of IPM strategies in cotton programmes • To arrange for exposure visits for the Master Trainers of St. Agril. Dept. • To monitor the pest population through on line data reports and to assist in alarming situations through field visits • To get feedback for future anticipatory research for developing IPM components
6	CRIDA, Hyderabad	<ul style="list-style-type: none"> • To document weather information in pest surveillance area and to share the data with all the stakeholders. • To work out crop pest weather relationship in surveillance area and to develop simple prediction models based on weather after the end of the season for future use in the surveillance area.

Hierarchical structure of Pest Monitoring and Awareness Programmes

1. Pest Monitoring

Coordinator

(Sub Divisional Agricultural Officer from ST. AGRI. DEPT.)

- To facilitate between the surveillance team and the steering committee
 - To monitor the duties of pest monitor and ensure the online feeding of the data in time
- One representative from State Agricultural University (Annexure 1) in each district will give technical assistance to SDAO while executing this duty



Pest Monitor

(One per 10±4 scouts to be engaged on contractual basis for 10 months)

- To assist the scout on data collection
- To monitor the scouts for proper data collection
- To gather the data from scouts and enter it online during the crop season
- To conduct roving survey during the season on crops and on alternate hosts in off season



Data Entry Operator

(One per Pest Monitor to be engaged on contract for five months starting from first week of June)

- To feed the data online on Wednesday & Thursday (before 12 noon) and Saturday & Sunday (before 12 noon)
- To pass on pest advisory to SDAO and other Agricultural Officers for dissemination



Scout

(One per 8000 ha of Soybean + Cotton area to be engaged on contract for five months starting from first week of June)

- To scout cotton / soybean fields @ four fields per village and two villages per day for four days i.e. Monday, Tuesday and Thursday, Friday
- To report the data to Pest Monitor at a fixed place on Wednesday and Saturday

2. Awareness and Pest based Advisory System

Coordinator

(One Sr. Officer at district level from ST. AGRIC. DEPT.)

- To facilitate between the ST. AGRIC. DEPT. officers and Steering Committee
- To nominate the Master Trainer's (10 / district + All SDAOs) for training at SAU
- To coordinate the field staff (400 / district) training by Master Trainers with technical assistance from SAU representative at district level (Annexure I)
- To organize elite farmers training at Taluka level with assistance from Master Trainers and SAU representative at district level



Master Trainer

(Ten per district and all SDAOs from ST. AGRIC. DEPT.)

- To obtain training from SAU
- To train the field staff of ST. AGRIC. DEPT.
- To assist in organizing Taluka level elite farmers training



Field Staff

(400 per district from ST. AGRIC. DEPT.)

- To obtain training from Master Trainers
- To disseminate the knowledge to all progressive soybean/cotton farmers
- To disseminate the weekly pest advisory system to farmers



Elite Farmers

(Five per village)

- To pass on the pest based advisory information to fellow farmers through village boards
- To organize group meetings at fortnightly intervals to pass on the information to fellow farmers.

Execution Procedure

Pest Scouting and Advisory :

Pest scouts are engaged @ one per around 8000±4000 ha area of soybean + cotton. The scouts are monitored by Pest Monitors @ one per around 10±4 scouts. In case of very less area one scout + one pest monitor and one data entry operator set is provided for the whole district. Pest Monitors are assisted by Data Entry Operator @ one for each Pest Monitor. The whole set up consisting of 780 scouts + 82 Pest Monitors + 82 Data Entry Operators are to be engaged on contractual basis as per recruitment procedure and terms and conditions mentioned in annexure 2. They are placed as a unit under the direct supervision of SDAO, who will supervise the unit and ensure the regular feeding of the data. SDAO also will get the contractual staff's salary and mobility to be reimbursed from CIPMC, Nagpur.

Pest scouts have to collect data from soybean and cotton in 8 fixed villages (to be selected by SDAO and Pest Monitor based on area of soybean and cotton) in each week. In each village the observation is to be taken on two fixed plots and two random plots (each field of one acre to be selected depending on the proportionate area of the crop i.e. one fixed and random plot each in soybean and cotton to be allocated by SDAO and Pest Monitor). Scout will be taking observations in four fields per village and two villages per day. In this manner he will be taking observations on Monday & Tuesday and Thursday & Friday. The reports in the form of data sheets are to be supplied to Pest Monitor on or before 10 am of proceeding day after two days i.e. Wednesday and Saturday.

Pest Monitor will be provided with the mobility by way of hiring of vehicles, which is to be done on monthly basis on rates to be fixed by State Agricultural Department. Pest Monitor will be monitoring the scouts (for the methodology and punctuality of taking observations) on Monday and Thursday randomly through surprise checks. On Tuesday and Friday Pest Monitor have to select a random route and villages (which are not being covered by scouts) and conduct a roving survey in 10 villages each day. The total report of fixed plot and roving plot survey will be properly compiled by Pest Monitor and he should get it fed on line in to the website through data entry operator. The data feeding operation for two days data (whole set) are to be entered on line before 12 noon on Wednesday and Saturday.

The entered data will be compiled online through the software automatically and reports are to be prepared village wise and Pest Monitor unit wise. The data are to be interpreted by Research Associates at SAUs under the guidance of Head, Department of Entomology of each SAU and the pest advisory system is to be entered online by them. This advisory system should be completed on or before Thursday and Sunday (before 10.00 am). The advisory will be in two types, i.e. one in detailed form to be disseminated to the villages through field staff of State Agriculture Department and also popularized through radio bulletins and press reports. Another in the form of short SMS which is to be disseminated through SMS to elite farmers, elected representatives such as MPs, MLAs, Panchayat Presidents, etc.

Pest Monitor will download both the advisories and hand it over to concerned SDAO for onward transmission through field staff, radio bulletins, press, SMS, etc.

Emergency Situations :

In case of visibly epidemic situations Pest Monitors will immediately raise the alarm through website as well as direct report to SDAOs and SAU representative at district level and Pest Surveillance Team of State Agricultural Department at district level. Otherwise the Head, Department of Entomology also should communicate the

epidemic situations based on the interpretation of data. On hearing of the epidemic report the SDAO has to assess the situation by on spot visit and also will arrange the visit of district teams for monitoring the situations. Depending on the situations the district team declares the epidemic situations and in consultation with Head, Department of Entomology, CICR, DOSR, NCIPM the release of the critical inputs stocked at DJDA level will be done on war footing to contain the epidemic at the location level. More efforts also will be made through trained field staff and elite farmers for creating awareness at the epidemic area. The epidemic has to be declared if a single pest is severe in more than 10 % of fields in a village.

Awareness creation through trainings :

SAUs will be giving trainings on Soybean and Cotton Package of Practices for two days of duration. The staff will be deputed by State Agricultural Department (Senior level staff 10 @ per district and all SDAOs). The SAU representative for each district also will be trained. The Master Trainers in turn will be training the field staff @ 400 per district. All the staff will arrange the training of elite farmers at Taluka level who will disseminate the knowledge to fellow farmers. They also will be disseminating the pest based advisory system also at regular intervals.

Important Time Lines :

Period	Activity	Action by
2 nd Fortnight of May	Engagement of contractual service staff	NCIPM,SAUs, CIPMC
	Training of Master Trainers	SAUs
	Training of field staff by Master Trainers	St. Agril. Dept.
	Designing of surveillance module and proforma	NCIPM, DOSR, CICR, SAUs
1 st Fortnight of June	Taluka lever training of farmers by Master Trainers and Field Staff	St. Agril. Dept.
	Training of Pest Monitoring Unit and distribution of monitoring kit	SAUs & NCIPM
	Development and implementation of online pest monitoring software	NCIPM
	Training of Data Entry Operators and Research Associates of SAUs on online data feeding and Pest Advisory System respectively	NCIPM
	Development of popular materials on IPM	NCIPM, DOSR, CICR and SAUs
	Collection of weather data in the surveillance area	CRIDA
2 nd Fortnight of June	Pest Monitoring and online feeding in soybean and cotton through fixed and roving survey	St. Agril. Dept. through Pest Monitoring Unit
	Issue of Pest Advisory System	SAUs
	Dissemination of Pest Advisory System	St. Agri. Dept.
	Production and distribution of popular materials through electronic and print media	St. Agri. Dept.
	Epidemic declaration and emergency visit – All the above five activities to be continued for five months from date of appointment	All concerned
	Arrangement of critical inputs at DJDA level	NCIPM
December to March	Off season random surveillance for key pests by pest monitors	St. Agri. Dept
	Development of simple thumb rules based on crop pest weather relationship	CRIDA
	Analysis and interpretation and preparation of reports	All concerned

Budgetary Requirement (Details with Justification):

S. No.	Details	Justification	Budget (Rs. in lakhs)	Funds to be distributed through
Pest Monitoring and Surveillance				
1	Pest Monitors on contract @ Rs.12000/- pm (fixed) for 10 months for 82 pest monitors	To perform duties as assigned above	98.40	St. Agrl. Dept.
2	Data Entry Operators on contract @ Rs.4000/pm (fixed) for 5 months for 82	--do--	16.40	St. Agrl. Dept.
3	Pest Scouts on contract @ Rs.4000/-pm (fixed) for 5 months for 780 scouts	--do--	156.00	St. Agrl. Dept.
4	Mobility of 82 pest monitors (each @ Rs,15000/ pm / pest monitor for 5 months for hiring vehicles on monthly basis)	To monitor the scouts and for roving survey of villages not covered by scouts	61.50	St. Agrl. Dept.
5	Mobility of 780 scouts @ Rs.1000 / scout pm for 5 months to be paid along with the salary	For movement to different villages for survey and twice a week report to pest monitor	39.00	St. Agrl. Dept.
6	Development and implementation of on-line monitoring software programme and the checking of quality data feeding online through two SRFs and computers with communication and office facilities	For development and maintenance of website and to ensure regular online reporting of online data	10.00	NCIPM
7	GIS Applications Development for implementing automated map generation system	For tracking the epidemic areas based on data linked with maps	8.5	NCIPM
8	Monitoring kit consisting of pheromone traps (four + 20 lures and 50 gms of castor seed) @Rs.500 / kit for each village for 6240 villages with lens and other observation kits for pest scouts	For installing pheromone traps (monitoring) and sowing castor as an indicator crop	31.20	NCIPM
9	Printing and distribution of common surveillance proforma from a	For pest scouting (@Re1.50 / one field-form / week	10.00	NCIPM

	centralized source	for 4 fields / village in 6240 villages for 20 weeks each for fixed plot survey and roving survey		
10	Labtop and internet connection @ Rs.65000/- per set for all 82 pest monitoring units	For compiling the data and entering them online	53.30	St. Agri. Dept.
11	Cyber shot digital cameras @Rs.16000/- for all 82 pest monitoring units	For capturing snaps of unusual or could not be identified pests and crop conditions and sending them through mail to experts for consultation	13.12	
12	Contingency @ Rs.Fifty thousand for each team for 82 teams	For purchasing stationeries, CDs, internet connection / cybe café, etc.	41.00	St. Agri. Dept.
13	Training of pest monitoring and surveillance team by PDKV, MPKV and MAU (one at the beginning of the season for two days and another one day training in the midst of the season) @ Rs.1000 per staff for 780 scouts + 82 DEO + 82 Pest Monitors	For training on surveillance and online data feeding	9.44	SAUs
14	GPS system to locate longitude and latitude of the field @Rs.15000/ piece for 100 no.s to be used by 82 pest monitors in 75 subdivisions of 28 districts and all stake holders (including spares for emergency use);	For recording & tracking of longitude and latitude of field and to locate the surveillance plot by monitoring team and to develop map based pest alert system	15.00	NCIPM
15	One RA(computers) for NCIPM and Two RA (Entomology & Pathology) each for ST. AGR. DEPT. Dr.PDKV, MPKV, MAU and One RA (SMS) for NCIPM, CRIDA, CICR	RA – Computers for assisting on-line monitoring software part and correlation of weather pest data RA – Entomology/ Pathology for	30.09	All respective centres

	and DOSR @Rs.17000/pm + HRA for 10 months	assisting in subject related works such as IPM module, popular material preparation training programs, and issuing weekly pest advisory etc.		
16	One computer operator each for all nine partners @ Rs.8000/ pm (fixed) for 10 months	For compiling and analyzing the pest and weather data	7.20	All respective centres
17	Traveling allowance for the participating centres @ Rs. One lakh each for PDKV, MAU, MPKV, CRIDA, CICR and DOSR and Two lakhs for ST. AGRI. DEPT. and Four lakhs NCIPM (for over all coordination)	For monitoring the fixed plot and roving plot surveys randomly for field visits in case of emergencies, to attend meetings, etc.	14.00	All respective centres
18	Contingency @ Rs.50000/ for DOSR, CICR, CRIDA and Rs. One Lakh for PDKV, MPKV and MAU and Rs.Two lakhs for St. Agri. Dept., NCIPM	To meet out experimental materials, stationeries and miscellaneous expenses, postage charges, fax, etc. related to programme and development of popular materials, video films, etc. for this programme	10.50	All respective centres
19	One set of video camera and laptop and accessories each for the 8 centres @ Rs.125000 / set and only laptop and accessories for CRIDA @ Rs.75000 / set	For making video clips on biology and damage of pests and IPM strategies and compiling them.	10.75	All respective centres
20	Weather data past (historic) and current to be obtained for the surveillance area	For developing decision support system	2.00	CRIDA, Hyderabad
21	Establishment of State level monitoring unit with five desktops and accessories equipped with online UPS and inverter facility for 8 hours with air	For monitoring the overall activity of pest monitoring cum awareness activities on line. For physical	11.50	State Agricultural Department

	conditioning systems and including provision for hiring of vehicles (Rs.1.5 lakhs for @ Rs.15000 / month for 10 months)	coordination of the activity at the state level and field visit in case of emergency		
Awareness and Pest Advisory based action				
22	Training of Master Trainers (All SDAOs and 10 additional staff members per each district) in total 354 staff + 28 district representatives from SAU to be trained @ Rs.1200/ staff	For creating Master Trainers on Cotton-Soybean IPM module	4.70	State Agricultural Universities
23	Training of field staff @ 400 in each district by master trainers (@ Rs.250 / staff	Training to be organized for field staff by Master Trainers	28.00	State Agriculture Department
24	Training of five elite and progressive farmers by organizing Taluka level training camps @Rs.40000 / camp in 271 Talukas in 28 districts	Training to be imparted to farmers by trained field staff and Master Trainers in collaboration with SAU representative	108.40	State Agriculture Department
25	Sitting of elite farmers with the fellow farmers @Rs.100/ sitting for 10 sittings at fortnightly intervals in 30000 villages	For disseminating the knowledge on IPM and discussing about the pest advisory system	300.00	State Agriculture Department
26	Printing of publicity material posters / folders, etc. through electronic and print media @Rs. Two lakh / district for 28 districts	For creating mass awareness	56.00	State Agriculture Department
27	Contingency and TA grant for the SAU representative operating in each of the 28 districts @ Rs.25000 / district	For assisting the training and surveillance team	7.00	Respective SAU
28	Exposure Visits to CICR, Nagpur and DOSR, Indore for 3days during the season for all 354 staff @ Rs.2500/ staff	For providing boarding and lodging (TA to be claimed from St. Agri. Dept.) to all trainees and the literatures	18.00	CICR and DOSR
29	Stocking of SI NPV (Shelf life of 2 years) @ Rs.500 /	To manage the epidemic situation	105.00	NCIPM (To be purchased through

	hectare for 2500 hectares and <i>Beauveria bassiana</i> (shelf life of one year) @Rs.500 / hectare for 500 hectares in each of the seven division	if arises		approval of quality by technical committee)
30	Coordinating the overall programme	To organize meetings of all stake holders at regular intervals	3.00	NCIPM, New Delhi
		Total	1279.00	

Summary of Budgetary Requirement (Component and Centre Wise – Rs. in lakhs)

Sr no	Particulars	St.Agrl. Dept.	CIPMC*	NCIPM	PDKV	MAU	MPKV	CICR	DOSR	CRIDA	Total
1	Pest Monitors' salary		98.40								98.40
2	Data Entry Operators' salary		16.40								16.40
3	Pest Scouts' salary		156.00								156.00
4	Pest Monitors' mobility		61.50								61.50
5	Pest Scouts' mobility		39.00								39.00
6	Development of website and tracking of data			10.00							10.00
7	Generation of GIS based maps			8.50							8.50
8	Pest Monitoring kit			31.20							31.20
9	Pest Survey Proforma			10.00							10.00
10	Laptop and internet system for Pest Monitoring units	53.30									53.30
11	Digital cameras for PM units	13.12									13.12
12	Contingency for PM units	41.00									41.00
13	Training of all staff of PM units				4.79	3.01	1.64				9.44
14	GPS system for PM units			15.00							15.00
15	RAs for different stake holders	4.08	4.08	4.42	3.74	3.74	3.74	2.04	2.04	2.21	30.09
16	Computer operator for different stake holders	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	7.20
17	Travelling allowance for different stake holders	2.00	2.00	4.00	1.00	1.00	1.00	1.00	1.00	1.00	14.00
18	Contingency for different stake holders	2.00	2.00	2.00	1.00	1.00	1.00	0.50	0.50	0.50	10.50
19	Laptop and video camera and accessories	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	0.75	10.75
20	Weather data past and present									2.00	2.00
21	State Monitoring Unit	11.50									11.50
22	Training of Master Trainers				1.67	1.37	1.66				4.70
23	Training of Field staff	28.00									28.00
24	Training of Elite farmers at Taluka level	108.40									108.40
25	Sitting of Elite farmers with fellow farmers	300.00									300.00
25	Printing of publicity material (electronic and press)	56.00									56.00
26	Contingency for SAU – District Representative				2.50	2.00	2.50				7.00
27	Exposure visits during the season							9.00	9.00		18.00
28	Stocking of critical inputs for emergency use			105.00							105.00
30	Overall coordination meetings			3.00							3.00
	Total	621.45	381.43	195.17	16.74	14.17	13.60	14.59	14.59	7.26	1279.00

* Budget to be operated by St.Agrl. Dept.

SAU Representatives

Mahatma Phule Krishi Vidyapeeth

a) **Steering Committee:** Dr. A.G.Chandele, Head, Department of Entomology,

M.P.K.V., Rahuri-413722

b) **MPKV Master Trainers Training Centers:**

Pune	Dr. S.S.Jadhav, Professor of Entomology
Dhule	Prof. P.K.Dharne, Professor of Entomology

c) **District level Representative for Pest Monitoring and Awareness Team:**

District	Name of Scientist	Address
Nashik	Prof. S.D.Patil	Assistant Entomologist, Agriculture Research Station, Niphad, Dist.- Nashik
Dhule	Prof. P.K.Dharne	Professor of Entomology, College of Agriculture, Dhule
Nandurbar	Prof. B.M.Mhaske	SMS (Plant Protection), Krishi Vigyan Kendra, Dhule
Jalgaon	Prof. M.S.Shirke	Entomologist, Oilseed Research Station, Jalgaon
Ahmednagar	Dr. A.B. Tambe	Forage Entomologist,
Pune	Prof. J.S.Ambekar	Associate Professor of Entomology, College of Agriculture, Pune
Solapur	Dr. V.B.Akashe	Assistant Entomologist, Safflower Research Project, NARP, Scarcity Zone, 97, Ravivar Peth, Solapur
Satara	Dr. R.V.Nakat	Assistant Entomologist, AICRP on Biocontrol, College of Agriculture, Pune
Sangli	Prof. R.G.Jadhav	Assistant Entomologist, NARP, Agriculture Research Station, Kasbe Digraj, Dist.- Sangli
Kolhapur	Prof. S.B.Kharbade	Professor of Entomology, College of Agriculture, Kolhapur

Marathwada Agricultural University

- 1) Steering committee member and Nodal Officer, M.A.U. Parbhani : Dr. B. B. Bhosle
Head Department of Entomology
- 2) Co-steering member : Dr. D. W. Wadnerkar
Associate Professor Entomology
- 3) I/c. Scientists :
Soybean : Dr. K. S. Baig
Soybean Breeder,
Soybean Research Scheme, Parbhani
Cotton : Dr. D. G. More
Cotton Entomologist, CRS, Parbhani

The training will be conducted at following centers

Items/ Venue	Aurangabad (NARP Hall)	Parbhani (DEE Hall)
Districts to be covered	Aurangabad, Jalna, Beed, Osmanabad	Parbhani, Nanded, Hingoli and Latur
Training Officer	Dr. M. G. Umate Associate Director NARP	Dr. P. S. Chavan, Extension Scientist Director Extension & Education, M.A.U. Parbhani,
Training Co-ordinator	Prof. Y. S. Saindane Entomologist, ARS, Badnapur	Prof. B. V. Bhede Sericulture Research Unit, Parbhani

Team of Scientists

- Soybean** : Dr. K. S. Baig, Soybean Breeder, Soybean Research Station Parbhani
Prof. Kamble S. K., Entomologists, Soybean Research Station Parbhani
Dr. S. R. Oza, Agronomist, Dryland Research Station, Parbhani
Dr. L. R. Kharwade, Pathologist., College of Horticulture
Dr. Navgire K. D., Safflower Scheme
- Cotton** : Dr. D. B. Deosarkar
Cotton Breeder, CRS, Nanded

Dr. P. R. Zanwar, Entomologist, CRS, Nanded

Prof. Khargkharate, Agronomist, CRS, Nanded

Prof. Dhoke, P.B., Pathologist, CRS, Nanded

District level Representative for Pest Monitoring and Awareness Team:

Districts	Scientists
Parbhani	Prof. B. V. Bhede, Sericulture Research Unit, Parbhani + Prof. P.V.Khalikar, Assoc. Professor Dept. of Plant Pathology, College of Agriculture, Parbhani
Hingoli	Dr. S. K. Kamble, Soybean Research Scheme, Parbhani + K.D. Navgire, Pathologist, Safflower Scheme, Parbhani
Nanded	Dr.P.R.Zanwar, + Dr.Dhoke, Pathologist, CRS, Nanded
Latur	Dr. S. S. Shetgar, Agril. College, Latur + Dr. Shirasikar, ORS, Latur
Aurangabad	Prof. Y. S. Saindane, ARS, Badnapur + Dr. Ghante, ARS, Badnapur
Jalna	Dr. V. K. Bhamare, Agril. College, Badnapur + Dr. Kohire, AD (Seeds), Parbhani
Beed	Dr. P. K. Nalwandikar, Agril. College, Ambajogai + Dr. Badgire, College of Agriculture, Ambajogai
Osmanabad	Prof. Bantewad , College of Agril. Osmanabad + Ambadkar, ARS, Tuljapur

Panjabrao Deshmukh Krishi Vidyapeeth

1. **Steering Committee: Dr. U.P.Barkhade.** Head Department of Entomology, Dr. PDKV. Akola 444104 (M.S.) **E-mail:** hdentomology@gmail.com
Phone No. 0724-2258050 **Fax No.** 0724-2258050 **Mobile:**09657725753
2. **Dr. PDKV Master Trainers Training Centers:2**
 - I. **AKOLA:** For Akola, Buldana. Yavatmal Amravati and Washim districts.
Training Co-ordinators: Dr. S.M. Thakare (University Level)
Phone No. Office: 0724-2258050 **Mobile** 09422959818
Training Place: Committee Hall, Dr. PDKV, Akola.
 - II. **NAGPUR:** For Nagpur. Wardha Chandrapur, Bhandara, Gondia and Gadchiroli, district.
Training Co-ordinator: Dr. D.B. Undirwade **Phone no.** 09850819992
Training place: Department of Entomology, College of Agril. Nagpur.
3. **District level Representative for Pest Monitoring and Awareness Team :**

Sr.No	Name of Scientist	Designation and Address	For District
1.	Dr. G.K. Lande	Assistant Professor of Entomology C/o HD. Entomology. Dr. PDKV, Akola Phone no. 09421749429	Akoal
2.	Dr. A.K. Sadawarte	Assistant Professor of Entomology, Citrus, Dt-Back, Project, Dr. PDKV Akola Phone No. 09657725697	Baldana
3.	Prof. J.D. Patel	Assistant Professor of Entomology Pest Harvest Technology, Dr. PDKV, Akola Scheme Phone No. 0724-2454708	Washim
4.	Dr. P.V. Yadgirwar	Assoc Prof. entomology and Training organizer KVK, Yavatmal Phone 9371459061	Yavatmal
5.	Dr. P.L. Tadas	Assistant Professor of Entomology, Regional Research Station, Dr. PDKV. Mroshi Road, Amravati Phone 9326652718	Amravati
6.	Dr. L.N. Peshkar	Assistant Professor of Entomology College of Agril. Nagpur Ph. 09850342894	Nagpur
7.	Dr. V.N. Nandanwar	Assistant Professor of Entomology, KVK, Selsura Dist, Wardha Ph. 07152-287085 mob. 09423435510	Wardha
8.	Dr. V.Y. Deotale	Assistant Professor of Entomology, NARP, Smdewahi. Distt. Chamerapur Ph. 09822229740	Chandrapur
9.	Dr. P.W. Nemade	Assistant Professor of Entomology, KVK, Sakoli. Distt. Bhandara ph. 09850208111	Bhandra
10.	Dr. N.V. Lavhe	Assistant Professor of Entomology, KVK, Gondia. Ph. 09822703101	Gondia
11.	Dr. V.K. Biradar	Assistant Professor of Entomology, KVK, Sonapur, Distt. Gadchiroli ph. 09422826153	Gadchiroli

- The associated persons from different stake holders will be communicated soon

Procedure for Engagement of Contractual Staff

The selection procedure for engagement of contractual staff will be organized at the University level, in all the three Universities for the districts falling in their jurisdiction. The following Committee will conduct the selection procedure for engagement of contractual staff through a two stage selection process :

Two Stage Selection Process :

Written Test : Only with objective / multiple choice type questions to test the knowledge level required for executing the duties.

Interview : The following committee will select the candidates screened on the basis of written test in the ratio of 1 : 4

Committee Empowered for recommending Contractual Staff :

Chairman of the Committee : Member, Steering Committee from the University

Member : Representative from Registrar Office of respective SAU

Member : Representative from State Agricultural Department,

Member : Representative from CIPMC / NCIPM

Eligibility Conditions :

Pest Monitor :

- Essential Educational Qualifications : B.Sc. (Agriculture); He should have fluency in Marathi and English, should be computer literate; Age between 21 – 45 years. Preference shall be given to local subdivision level candidate where the work is supposed to be taken up.

Data Entry Operator :

- Essential Educational Qualifications : 10th Pass with One year certificate / diploma course in Computers. Should have fluency in Marathi and English. Age between 21-45 years. Preference shall be given to local subdivision level candidate where the work is supposed to be taken up.

Pest Scouts :

- Essential Educational Qualifications : Diploma in Agriculture; Should have fluency in Marathi and English. Preference shall be given to local Taluka level candidate where the work is supposed to be taken up.

* In case of non availability of the candidate native of the respective subdivision / Taluka where the work is allocated, preference may be given to a candidate from nearby subdivision / Taluka.

The recommendation has to be communicated to Steering Committee Member of CIPMC, who will issue the orders to the contractual service persons. On receipt of orders they will report to the concerned SDAOs immediately. They will be under the Administrative control of SDAOs and will execute the following bond in Rs.100 Stamp Paper to the Government of Maharashtra in the following format. The salary bill should be duly signed by the incharge of Pest Monitoring Team and shall be forwarded to CIPMC, Nagpur. The salary and mobility of all contractual staff in pest monitoring will be released on satisfactory completion of the surveillance and on line feeding of data at stipulated time.

Terms and Conditions of the contract
Pest Monitoring Programme – Soybean - Maharashtra

F.No.

DATED :

MEMORANDUM

The Joint Director of Agriculture, Amravathi, is pleased to offer a contractual position of **Pest Monitor** in the Project entitled “**Awareness-cum-Suveillance Programme for management of Major pests in Soybean-Cotton based cropping System in Maharashtra (2009-10)**” sponsored by **Rashtriya Krishi Vikas Yojana, Maharashtra** to _____ S/O _____ on the following terms and conditions:-

1. The post is purely contractual and his engagement to the post of **Pest Monitor** is for the period of the five months initially from the date of appointment or earlier subject to satisfactory progress and availability of budget, whichever is earlier. The CIPMC/RKVY/State Agricultural Department, Maharashtra/ State Agricultural University holds no responsibility for his regularisation / appointment by absorption or otherwise against any regular post on termination of the project as it is purely temporary, time bound arrangement on co-terminus basis with the Project. The services of _____ shall stand terminated automatically on expiry of the period given in the sanction of the Project.
2. **The post carries the consolidated emoluments of Rs. 12,000/= per month (Fixed).** No other kind of allowance such as Dearness Allowance etc. shall be paid. However, emoluments drawn by him will be subject to Income tax rules applicable from time to time. The payment of emoluments will be governed by the terms and conditions decided from time to time by the Steering Committee.
3. **His Headquarters for the present will be at _____.** He should report to **-SDAO** _____.
4. He should execute of bond in Rs. 100/- stamp paper to the Government of Maharashtra in the format available with SDAO.
5. There is no provision of any kind of leave available for this post.
6. The contractual engagement can be terminated at any time by issue of one month notice if he is found to be negligent in his work
7. He can also request for his termination before the expiry of the project/scheme by giving one month notice in writing and with the approval of the appointing authority
8. Contract may also be terminated by the appointing authority at any time without giving one month's notice if he is found guilty of gross negligence in his duties or of grave misconduct
9. He will devote his whole time to the assignment given to him and he will not be allowed to accept or hold another appointment, paid or otherwise during the period of his appointment at this programme.
10. Other service conditions will be governed by the relevant orders issued by the Steering Committee of the programme from time to time.
11. If he leaves his assignment without permission he will not be entitled for the contract amount due to him on that date.
12. The work done by him will be the property of the State Agriculture Department and he will have no control or right on the same.
13. He will not be entitled to any travelling and/or conveyance allowance for joining the post at respective place.
14. He will not be paid any other allowance except the contract amount @ Rs.12000/- pm (fixed).
15. **If any declaration given or information furnished by him proves to be false or wilfully suppressed any material information, he will be liable for termination of his services and such other action as may be deemed necessary.**
16. In case the contract is acceptable to _____ on the terms and conditions mentioned above, he may intimate his acceptance to _____ immediately and join his duty within 7 days of the issue of this memorandum after which this offer shall stand withdrawn.
17. He / She should report to Head, Department of Entomology, PKV, Akola on 14th July, 2009 at 9.00 am for training programme for two days for scouts and three days for Pest Monitor and Data Entry Operator.

To

Copy for information to:

1. Chairman of the contractual service recommending committee
2. Member Secretary, Steering Committee
3. _____ Respective person for reporting to duty.

Pest Monitoring Unit at various District / Subdivisional indicating the number of staff to be engaged based on the area of soybean + cotton.

Name of Division	Name of District	Sub division	Taluka	Area Soybean (ha)	Area Cotton (ha)	Soybean + Cotton area	No. of scouts	No. of Pest Monitors	No. of Data Entry Operators
Nashik	Nashik	Nashik	Nashik	1300	0	1300	1	1	1
			Peth	275	0	275			
			Egatpuri	367	0	367			
			Trimbkeshwar	200	0	200			
			4	2142	0	2142	1	1	1
		Niphad	Niphad	21677	25	21702	3		
			Chandwad	480	130	610			
			Yewala	970	10893	11863	1		
			Sinnar	10200	35	10235	1		
			4	33327	11083	44410	5	0	0
		Malegaon	Malegaon	210	6610	6820	1		
			Satana (Baglan)	415	167	582			
			Nandgaon	78	7800	7878	1		
			3	703	14577	15280	2	0	0
		Kalwan	Dindori	2240	0	2240	1		
			Surgana	150	0	150			
			Kalwan	1647	0	1647			
			3	4037	0	4037	1	0	0
	Nashik Dist. Total	4	14	40209	25660	65869	9	1	1
	Dhule	Dhule	Dhule	1120	43858	44978	6	1	1
			Sakri	11500	7241	18741	2		
			Sindkheda	1270	27500	28770	4	1	1
			Shirpur	4090	31280	35370	4		
	Dhule District Total	1	4	17980	109879	127859	16	2	2
	Nandurbar	Nandurbar	Nandurbar	3500	18550	22050	3	1	1
			Navapur	10390	2750	13140	2		

			Akkalkuwa	5250	415	5665	1		
			3	19140	21715	40855	6	1	1
		Shahada	Shahada	6950	31850	38800	5		
			Taloda	1350	2400	3750	1		
			Akrani(Djhadg aon)	1285	36	1321			
			3	9585	34286	43871	6	0	0
	Nandur bar Dist. Total	2	6	28725	56001	84726	12	1	1
	Jalgaon	Jalgaon	Jalgaon	2888	30989	33877	4	1	1
			Yaval	2450	21147	23597	3		
			Bhusaval	2200	13291	15491	2		
			Eglabad(Mukt ainagar)	1109	22072	23181	3	1	1
			Bodhwad	100	15175	15275	2		
			Rawer	2970	19300	22270	3		
			6	11717	121974	133691	17	2	2
		Amalner	Amalner	700	27149	27849	3	1	1
			Chopda	2836	42108	44944	6		
			Erandol	1050	14096	15146	2	1	1
			Dharangaon	400	17738	18138	2		
			Parola	190	31176	31366	4		
			5	5176	132267	137443	17	2	2
		Pachora	Pachora	510	33922	34432	4	1	1
			Chalisingaon	129	48994	49123	6		
			Bhadgoan	200	21338	21538	3		
			Jamner	500	72232	72732	9	1	1
			4	1339	176486	177825	22	2	2
	Jalgaon Dist. Total	3	15	18232	430727	448959	56	6	6
Nashik Division Total	4	10	39	105146	622267	727413	93	10	10
Pune	Pune	Pune	Havali	300	0	300	1	1	1
			1	300	0	300	1	1	1
		Baramati	Baramati	400	100	500			
			Indapur	100		100			
			Purandar	100		100			
			3	600	100	700	0	0	0
		Rajgurun agar	Rajgurunagar	1000	0	1000			
			Junnar	200	0	200			
			Ambegaon	200	0	200			
			Shirur	100	0	100			
			4	1500	0	1500	0	0	0
	Pune Dist.	3	8	2400	100	2500	1	1	1

	Total								
	Ahmadnagar	Ahmadnagar	Pathrdi	0	23800	23800	3	1	1
			1	0	23800	23800	3	1	1
		Karjat	Karjat	0	300	300			
			Jamkhed	100	600	700			
			2	100	900	1000	0	0	0
		Srirampur	Newasa	5600	0	5600	1		
			Srirampur	12100	0	12100	2		
			Rahuri	7500	0	7500	1		
			Shevgaon	0	24400	24400	3		
			4	25200	24400	49600	7	0	0
		Sangamner	Sangamner	4700	0	4700	1	1	1
			Rahata	13100	0	13100	2		
			Akole	1600	0	1600	1		
			Kopargoan	12600	0	12600	2		
			4	32000	0	32000	6	1	1
	Ahmadnagar Dist. Total	4	11	57300	49100	106400	16	2	2
	Solapur	Solapur	Solapur (North)	100	0	100	1	1	1
			Solapur (South)	100	0	100			
			Akkalkot	300	0	300			
			Mohol	100	0	100			
			4	600	0	600	1	1	1
		Pandarpur	Malshiras	100	0	100			
			Sangola	0	100	100			
			2	100	100	200	0	0	0
		Kurdiwadi	Barshi	1800	0	1800			
			Madha	100	0	100			
			2	1900	0	1900	0	0	0
	Solapur Dist. Total	3	8	2600	100	2700	1	1	1
Pune Division	3	10	27	62300	49300	111600	18	4	4
						0			
Kolhapur	Satara	Satara	Satara	4970	0	4970	1	1	1
			Koregaon	5170	0	5170			
			Khatav	850	457	1307			
			3	10990	457	11447	1	1	1
		Karad	Karad	9062	0	9062	1		
			Patan	4630	0	4630	1		
			2	13692	0	13692	2	0	0

		Wai	Wai	3349	0	3349	1		
			Javali	595	0	595			
			Khandala	230	0	230			
			3	4174	0	4174	1	0	0
		Phaltan	Phaltan	45	49	94			
			Maan (Dhahiwadi)	0	623	623			
			2	45	672	717	0	0	0
	Satara Dist. Total	4	10	28901	1129	30030	4	1	1
	Sangali	Miraj	Miraj	7250	10	7260	1	1	1
			Walva	21850	0	21850	3		
			Shirala	3995	0	3995			
			3	33095	10	33105	4	1	1
		Vita	Vita (Khanapur)	2500	50	2550	1		
			Tasgaon	6000	2	6002			
			Palus	8530	0	8530	1		
			Atpadi	0	450	450			
			Kadegaon	3064	240	3304	1		
			5	20094	742	20836	3	0	0
		Jat	Jat	0	1235	1235			
			Kavatemahakal	1230	210	1440			
			2	1230	1445	2675	0	0	0
	Sangali Dist. Total	3	10	54419	2197	56616	7	1	1
	Kolhapur	Karveer	Karveer	5100	0	5100	1	1	1
			Radhanagari	50	0	50			
			Kagal	9510	0	9510	1		
			3	14660	0	14660	2	1	1
		Kolhapur	Hatkangale	15105	0	15105	2		
			Shahuwadi	115	0	115			
			Shirol	11700	0	11700	2		
			Panhala	1410	0	1410			
			4	28330	0	28330	4	0	0
		Gadhinglaj	Gadhinglaj	13560	60	13620	2		
			Bhudargad	280	0	280			
			Ajora	1750	0	1750			
			Chandgad	105	50	155			
			4	15695	110	15805	2	0	0
	Kolhapur Dist Total	3	11	58685	110	58795	8	1	1
Kolhapur Division	3	10	31	142005	3436	145441	19	3	3

Total									
Auranga bad	Auranga bad	Auranga bad	Aurangabad	500	23900	24400	3	1	1
			Phulambri	100	23500	23600	3		
			Paithan	100	30300	30400	4		
			3	700	77700	78400	10	1	1
		Sillod	Sillod	2500	35400	37900	5	1	1
			Soygaon	1400	24500	25900	3		
			Kannad	500	34600	35100	4		
			3	4400	94500	98900	12	1	1
		Vaijapur	Vaijapur	300	32500	32800	4	1	1
			Khultabad	300	16200	16500	2		
			Gangapur	500	30000	30500	4		
			3	1100	78700	79800	10	1	1
	Dist Total	3	9	6200	250900	257100	32	3	3
	Jalna	Jalna	Jalna	6700	39000	45700	6	1	1
			Badnapur	900	30400	31300	4		
			Bhokardan	2900	51000	53900	7	1	1
			Jafrabad	18600	17800	36400	5		
			4	29100	138200	167300	22	2	2
		Partur	Partur	1800	36900	38700	5	1	1
			Mantha	3900	26900	30800	4		
			Ghansanagari	2700	49500	52200	7	1	1
			Ambad	1300	26900	28200	3		
			4	9700	140200	149900	19	2	2
	Dist Total	2	8	38800	278400	317200	41	4	4
	Beed	Beed	Beed	1000	34000	35000	4	1	1
			Patoda	700	3600	4300	1		
			Shirurkasar	500	9500	10000	1		
			Ashti	900	900	1800			
			4	3100	48000	51100	6	1	1
		Majalgaon	Majalgaon	300	34500	34800	4	1	1
			Dharur	5200	15200	20400	2		
			Gavrai	200	46000	46200	6		
			Vadvani	800	8400	9200	1		
			4	6500	104100	110600	13	1	1
		Ambejogai	Ambejogai	31000	8000	39000	5	1	1
			Parali	25000	17400	42400	5		
			Kej	12200	24000	36200	4		
			3	68200	49400	117600	14	1	1
	Dist. Total	3	11	77800	201500	279300	33	3	3
Auranga bad Divi. Total	3	8	28	122800	730800	853600	106	10	10
						0			

Latur	Latur	Latur	Latur	29800	0	29800	4	1	1
			Renapur	22100	400	22500	3		
			Nilanga	22500	0	22500	3	1	1
			Ausa	31800	0	31800	4		
			Shiruranantpal	17700	0	17700	2		
			5	123900	400	124300	16	2	2
		Udgir	Udgir	25300	200	25500	3	1	1
			Chakur	21500	300	21800	3		
			Ahmadpur	27900	800	28700	4		
			Devni	8500	0	8500	1		
			Jalkot	5800	900	6700	1		
			5	89000	2200	91200	12	1	1
	Dist Total	2	10	212900	2600	215500	28	3	3
						0			
	Osamanabad	Osmanabad	Osmanabad	5800	0	5800	1	1	1
			Tuljapur	3200	0	3200			
			Omarga	9800	0	9800	1		
			Lohara	1000	0	1000			
			4	19800	0	19800	2	1	1
		Bhoom	Bhoom	1000	1100	2100	1		
			Vashi	300	300	600			
			Kalamb	3200	400	3600			
			Paranda	700	0	700			
			4	5200	1800	7000	1	0	0
	Dist Total	2	8	25000	1800	26800	3	1	1
						0			
	Parbhani	Parbhani	Parbhani	14000	35000	49000	6	1	1
			Jintur	7500	29000	36500	5		
			Gangakhed	4500	16200	20700	3	1	1
			Sonpeth	6000	14000	20000	2		
			Purna	10000	18000	28000	3		
			Palam	19000	17000	36000	4		
			Selu	7500	35800	43300	5	1	1
			Pathri	1500	26400	27900	3		
			Manvat	5000	20000	25000	3		
		1	9	75000	211400	286400	34	3	3
	Dist Total	1	9	75000	211400	286400	34	3	3
						0			
	Hingoli	Hingoli	Hingoli	31170	18300	49470	6	1	1
			Sengoan	24400	14000	38400	5		
			Aundha Nagnath	29000	22000	51000	6	1	1
			Kalamnuri	22300	26600	48900	6		
			Vasamat	23000	24800	47800	6	1	1
			5	129870	105700	235570	29	3	3
	Dist	1	5	129870	105700	235570	29	3	3

	Total								
						0			
	Nanded	Nanded	Nanded	8900	8500	17400	2	1	1
			Mudkhed	5100	5500	10600	1		
			Loha	14500	16500	31000	4		
			Kandhar	16200	18900	35100	4		
			4	44700	49400	94100	11	1	1
		Degloor	Degloor	6100	15200	21300	3	1	1
			Mukhed	12600	14600	27200	3		
			Biloli	5200	5200	10400	1		
			Dharmabad	6900	10500	17400	2		
			Naygaon	12000	10000	22000	3		
			Ardhapur	6300	5800	12100	1		
			6	49100	61300	110400	13	1	1
		Kinwat	Kinwat	19600	37500	57100	7	1	1
			Mahur	15000	21700	36700	5		
			Himayatnagar	6200	20300	26500	3	1	1
			Hadgaon	19500	31800	51300	6		
			Bhokar	2800	27800	30600	4	1	1
			Umri	6300	9500	15800	2		
			6	69400	148600	218000	27	3	3
	Dist Total	3	16	163200	259300	422500	51	5	5
Latur Division Total	5	9	48	605970	580800	1186770	145	15	15
Amravati	Amaravati	Amravati	Amravati	40358	2434	42792	5	1	1
			Bhatukali	22410	6725	29135	4		
			Chandur Railway	26763	4355	31118	4		
			Nandgaon Khadeswar	35712	12790	48502	6	1	1
			Dhamangao Railway	30628	9980	40608	5		
			5	155871	36284	192155	24	2	2
		Morshi	Morshi	29229	19980	49209	6	1	1
			Varud	21193	12788	33981	4		
			Chandurbazar	29817	8130	37947	5	1	1
			Tivasa	33610	3646	37256	5		
			4	113849	44544	158393	20	2	2
		Achalpur	Achalpur	20340	11385	31725	4	1	1
			Anjangoan surji	23500	5740	29240	4		
			Daryapur	6300	11407	17707	2		
			Dharani	33540	3260	36800	5	1	1
			Chikaladhara	19306	1240	20546	4		
			5	102986	33032	136018	19	2	2
	Total Dist.	3	14	372706	113860	486566	63	6	6
	Bhuldha	Bhuldha	Buldhana	33806	11952	45758	6	1	1

	na	na							
			Motala	2100	33797	35897	4		
			Malakapur	3950	24000	27950	3		
			Chikhali	51500	16100	67600	8	1	1
			4	91356	85849	177205	21	2	2
		Mehkar	Mehkar	47573	7585	55158	7	1	1
			Lonar	35151	2125	37276	5		
			Shindkhedraja	27696	20109	47805	6	1	1
			Deolgaonraja	8250	20950	29200	4		
			4	118670	50769	169439	22	2	2
		Khamgoan	Khamagoan	14500	23950	38450	5	1	1
			Shegoan	1830	20080	21910	3		
			Nandura	3434	24000	27434	3	1	1
			Jalgoanjamod	1120	17502	18622	2		
			Sangrampur	5500	24695	30195	4		
			5	26384	110227	136611	17	2	2
	Total Dist	3	13	236410	246845	483255	60	6	6
	Akola	Akola	Akola	22280	33858	56138	7	1	1
			Barshitakali	20200	21825	42025	5		
			Murtijapur	21600	23300	44900	6	1	1
			3	64080	78983	143063	18	2	2
		Akot	Akot	23200	21722	44922	6	1	1
			Telara	12780	22475	35255	4		
			Balapur	12300	27900	40200	5	1	1
			Patur	25800	18500	44300	6		
			4	74080	90597	164677	21	2	2
	Total Dist	2	7	138160	169580	307740	39	4	4
	Washim	Washim	Washim	46497	3150	49647	6	1	1
			Mangrulpir	19849	13587	33436	4		
			Risod	60311	785	61096	8	1	1
			Malegoan	47153	815	47968	6		
			Karanja	27950	17130	45080	6	1	1
			Manora	27365	15878	43243	5		
			6	229125	51345	280470	35	3	3
	Total Dist	1	6	229125	51345	280470	35	3	3
	Yeotmal	Yeotmal	Yeotmal	18375	22227	40602	5	1	1
			Kalamb	20610	22940	43550	5		
			Ralegoan	21142	31105	52247	7	1	1
			Ghatangi	15210	34400	49610	6		
			4	75337	110672	186009	23	2	2
		Pusad	Pusad	25850	27850	53700	7	1	1
			Digras	10608	18070	28678	4		
			Umerkhed	33144	17760	50904	6	1	1
			Mahagaon	17395	24688	42083	5		
			4	86997	88368	175365	22	2	2
		Darvha	Darvha	25000	17820	42820	5	1	1

			Arni	16232	27063	43295	5		
			Babhulgaon	20572	15004	35576	4	1	1
			Ner	18415	19943	38358	5		
			4	80219	79830	160049	19	2	2
		Pandharkawada	Pandharkawada	12200	29000	41200	5	1	1
			Zarizamani	20328	21060	41388	5		
			wani	23260	24630	47890	6	1	1
			Maregaon	15891	20242	36133	5		
			4	71679	94932	166611	21	2	2
	Total Dist.	4	16	314232	373802	688034	85	8	8
Amravati Division Total	5	13	56	1290633	955432	2246065	282	27	27
Nagpur	Chandrapur	Chandrapur	Chandrapur	14558	1800	16358	2	1	1
			Ballarpur	5821	220	6041	1		
			Mul	3006	0	3006	1		
			Savali	1250	0	1250			
			4	24635	2020	26655	4	1	1
		Nagbhid	Nagbhid	300	0	300			
			Brhamapuri	275	0	275			
			2	575	0	575	0	0	0
		Varora	Varora	39186	12500	51686	6	1	1
			Bhadravati	23968	4800	28768	4		
			Chimur	26270	310	26580	3		
			3	89424	17610	107034	13	1	1
		Rajura	Rajura	24200	11200	35400	4	1	1
			Korpana	18500	18300	36800	5		
			Gondpimpri	19729	5	19734	2		
			Pobhurna	6394	3	6397	1		
			4	68823	29508	98331	12	1	1
	Total Dist	4	13	183457	49138	232595	29	3	3
	Gadchiroli	Gadchiroli	Gadchiroli	400	0	400	1	1	1
			Charmoshi	6470	0	6470			
			Mulchera	290	0	290			
			3	7160	0	7160	1	1	1
		Aheri	Aheri	2250	70	2320			
			Sironcha	122	839	961			
			2	2372	909	3281	0	0	0
	Total Dist.	2	5	9532	909	10441	1	1	1
	Wardha	Wardha	Wardha	23350	14500	37850	5	1	1
			Selu	25050	8650	33700	4		
			Devali	37650	9800	47450	6	1	1
			3	86050	32950	119000	15	2	2
		Arwi	Arwi	30250	9040	39290	5	1	1

			Karanja Ghadage	29362	3120	32482	4		
			Asthi	20650	3200	23850	3		
			3	80262	15360	95622	12	1	1
		Hinganghat	Hinganghat	37780	11527	49307	6	1	1
			Samudrapur	49800	8900	58700	7		
			2	87580	20427	108007	13	1	1
	Total Dist.	3	8	253892	68737	322629	40	4	4
	Nagpur	Nagpur	Nagpur	17835	3010	20845	3	1	1
			Kamathi	15200	405	15605	2		
			Hingana	20137	9983	30120	4		
			Sawner	21800	10900	32700	4		
			4	74972	24298	99270	13	1	1
		Ramtek	Ramtek	3956	1080	5036	1	1	1
			Parshivani	13500	4200	17700	2		
			Mauda	15829	0	15829	2		
			3	33285	5280	38565	5	1	1
		Katol	Katol	37260	3170	40430	5	1	1
			Narkhed	32957	4368	37325	5		
			Kalameshwar	23050	6530	29580	4		
			3	93267	14068	107335	14	1	1
		Umred	Umred	38464	230	38694	5	1	1
			Bhivapur	28100	90	28190	4		
			Kuhi	37390	25	37415	5		
			3	103954	345	104299	14	1	1
	Total Dist.	4	13	305478	43991	349469	46	4	4
	Bhandra	Bhandara	Bhandara	2800	0	2800	1	1	1
			Pavni	4950	0	4950			
			2	7750	0	7750	1	1	1
		Sakoli	Lakhandur	612	0	612			
			1	612	0	612	0	0	0
	Total Dist.	2	3	8362	0	8362	1	1	1
Nagpur Division Total	5	15	42	760721	162775	923496	117	13	13
Total	28	75	271	3089575	3104810	6194385	780	82	82

District wise summary of Pest Monitoring Team

Name of Division	Name of District	Subdivision	Taluka	Area Soyabean	Area Cotton	Total of Soyabean and Cotton	Scouts as per one Scouts / 8000 ha. & below	No.of Pest Monitors	No. of Data Entry Operators
Nashik	Nashik	4	14	40209	25660	65869	9	1	1
	Dhule	1	4	17980	109879	127859	16	2	2
	Nandurbar	2	6	28725	56001	84726	12	1	1
	Jalgaon	3	15	18232	430727	448959	56	6	6
Total	4	10	39	105146	622267	727413	93	10	10
Pune	Pune	3	8	2400	100	2500	1	1	1
	Ahmadnagar	4	11	57300	49100	106400	16	2	2
	Solapur	3	8	2600	100	2700	1	1	1
Total	3	10	27	62300	49300	111600	18	4	4
Kolhapur	Satara	4	10	28901	1129	30030	4	1	1
	Sangali	3	10	54419	2197	56616	7	1	1
	Kolhapur	3	11	58685	110	58795	8	1	1
Total	3	10	31	142005	3436	145441	19	3	3
Aurangabad	Aurangabad	3	9	6200	250900	257100	32	3	3
	Jalna	2	8	38800	278400	317200	41	4	4
	Beed	3	11	77800	201500	279300	33	3	3
Total	3	8	28	122800	730800	853600	106	10	10
Latur	Latur	2	10	212900	2600	215500	28	3	3
	Osmanabad	2	8	25000	1800	26800	3	1	1
	Parbhani	1	9	75000	211400	286400	34	3	3
	Hingoli	1	5	129870	105700	235570	29	3	3
	Nanded	3	16	163200	259300	422500	51	5	5
Total	5	9	48	605970	580800	1186770	145	15	15
Amravati	Amravati	3	14	372706	113860	486566	63	6	6
	Bulldana	3	13	236410	246845	483255	60	6	6
	Akola	2	7	138160	169580	307740	39	4	4
	Washim	1	6	229125	51345	280470	35	3	3
	Yeotmal	4	16	314232	373802	688034	85	8	8
Total	5	13	56	1290633	955432	2246065	282	27	27
Nagpur	Chandrapur	4	13	183457	49138	232595	29	3	3
	Gadchiroli	2	5	9532	909	10441	1	1	1
	Wardha	3	8	253892	68737	322629	40	4	4
	Nagpur	4	13	305478	43991	349469	46	4	4
	Bhandara	2	3	8362	0	8362	1	1	1
Total	5	15	42	760721	162775	923496	117	13	13

Total	28	75	271	3089575	3104810	6194385	780	82	82
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