

GOVERNMENT OF ODISHA
DEPARTMENT OF AGRICULTURE AND FARMERS' EMPOWERMENT

NOTIFICATION

No. 518 /A & FE. Date: 17.04.2023

APP-PP-PP-0005-2022

Sub :- Operational Guideline of Need Based Plant Protection under state plan (2023-24 to 2027-28)

(A sub-scheme under newly created State Sector Scheme-3714-Crop Production Management)

Background: In Agriculture crop protection is an important aspect which is possible through a major approach like Integrated Pest Management and protecting crops from pest attack is very essential which is possible through regular pest surveillance & monitoring. The pest surveillance is the first step of Integrated Pest Management practices and one of the plant protection measures as per State Agricultural Policy (SAMRIDHI). In our State the crop like Paddy, Mung, Biri, Arhar, Groundnut, Mustard, Sugarcane, Cotton & Maize are being affected by various pest and diseases in each cropping season. Due to aberrant weather condition and change in climate minor pest becoming major creating huge crop loss which indirectly affect the socio-economic condition of the farmers. To overcome these difficulties it has become essential to implement the need based plant protection through pest surveillance followed by quality control mechanism of pesticides & bio-pesticides in digital mode via portal <http://epestodisha.nic.in> ,<http://dbtinputodisha.nic.in> and odishaagrilicense.nic.in developed by NIC Odisha .

Problems to be addressed: Due to occurrence of major pest in paddy and non paddy crops severe crop loss are being noticed in Odisha every year .The main reason is change in climate, weather aberration, use of non-recommended pesticides ,lack of farmers awareness, use of more nitrogenous fertilizer etc. From the history of pest occurrence , it is seen that some of the major pest occurrence in our state have economic importance needs special attention which are mentioned below.

1. Paddy - Swarming caterpillar ,Brown Plant Hopper, Sheath Blight., BLB, Yellow stem borer
2. Mung and Biri - YMV, *Spodopteralitura*
3. Maize -Fall Army worm
4. Cotton : white fly
5. Apart from the above mentioned pests , other pests which occur in sporadic patches in various areas in different crops are given below to be covered under Pest surveillance.

Name of the Crop	Major Insect-pest under surveillance	Major crop-diseases under surveillance
Paddy	Swarming Caterpillar ,BPH, WBPH,YSB, Leaf Folder, Case Worm, Gundhi Bug, Mealy Bug, Panicle Mite, GLH, Hispa, Gall midge	Blast, Brown Spot, BLB, Sheath Blight, Sheath Rot, Foot Rot
Maize	Stem Borer, Hairy Caterpillar, Shootfly, Fall Army Worm	Downy Mildew, Leaf Blight
Mung/Biri	Black Headed Caterpillar(<i>Spodopterasps</i>) , Pod	Yellow Mosaic Virus (YMV) , Leaf

	Borer, Aphids, Thrips, White Flies	Spot & Powdery Mildew
Arhar	Pod Borer & Pod Sucking pest	Wilt
Groundnut	Leaf miner, White grub, White ant, Thrips, Jassids, Tobacco caterpillar	Collar Rot, Tikka, Stem Rot.
Mustard	Jassids, Saw fly, Aphids	Downy Mildew, Alternaria Leaf Blight
Sugarcane	Early Shoot Borer, Top Shoot Borer, Internode Borer, Pyrilla, White Grub	Red Rot, Wilt, Smut
Cotton	Pink & American Bollworm, Jassids, Whitefly, Aphids, Thrips	Angular Leaf Spot, Wilt
All Crops	Locust	

Scheme Objectives:

- To check the crop loss by regular surveillance and awareness programmes
- To check the spread of diseases and pests by KUS students associates .
- To identify endemic pockets
- To organize Pest Management Camps in case of major pest occurrence.
- To issue the crop pests advisories by Dean Extension, Department of Entomology & Plant Pathology , College of Agriculture ,OUAT.
- To provide 50% farmers assistance through DBT in case of pest attack
- To regulate Quality control of pesticides and pesticide residue.

Strategy:

- Check the spread of diseases & pest
- Reduce the crop loss through farmer sensitization
- Find out pest endemic pockets
- Improving the awareness and increasing the adoption of the key schemes of the department
- Assessment of the performance of the key initiatives of the department
- Surveillance to prevent any sort of high intensity pest attack
- Identification of gaps in design and implementation of the on-going department programs

Coverage under the scheme and duration: This is one of the ongoing scheme covering all blocks , all GPs of 30 districts and will be implemented in both the cropping seasons i.e Kharif and Rabi. The physical target to be covered under this scheme under different key components are given below.

Year wise Component and coverage under Physical Target	2023-24	2024-25	2025-26	2026-27	2027-28	Total 5 year
e-Pest Surveillance and monitoring by AAOs & VAWs (physical area in lakh ha)	23.20	25.20	27.25	29.30	31.30	136.25 lakh ha
KUS internship student associate programme (in no)	800	800	800	800	800	4000 students
Farmers Assistance (subsidy) for Need Based PP & bio-pesticides (in ha)	30000	27000	23000	19000	20000	119000 ha
Maintenance & running 3 Portals by NIC	3	3	3	3	3	3 portals
Farmers Camps on Pest Management with SUP in Nos.	200	200	200	200	200	1000 Camps
No of Pesticides @3 per block /Bio-pesticides @1 block	1256	1256	1256	1256	1256	6280 Pesticide samples
Quality analysis of 100 samples in urban areas of harvested Grains for testing Pesticide Residue at NRRI	100	100	100	100	100	500 Food grain Samples

Target Beneficiaries: Small and marginal Farmers

The surveillance of crop pests will be conducted in the farmers field selected by AO/VAW and the farmers are the beneficiaries .In addition to this incase of occurrence of any disease pest above ETL the Need based pesticides can be recommended and farmers can avail 50% assistance through DBT. Farmers shall be sensitized on pest management along with IPM practices. Under the scheme the tentative number of direct beneficiary to be covered is 169000 in 5 years and the indirect beneficiary through surveillance is 136 lakh in 5 years.

Duration: Period shall cover two Cropping season i.e. Kharif & Rabi from 2023-24 to 2027-28

Implementation of the Scheme-

The programme is having following components described as follows.

1. E-pest surveillance & monitoring
2. KUS internship student Associate programme
3. Farmer Assistance for Need Based PP
4. Maintenance and running of portals
5. Pest Management farmers Camps with Safe Use of Pesticides

6. Quality Analysis of pesticides & Bio-pesticides

1. e-Pest Surveillance and monitoring by AAOs and VAWs

The program covers all blocks of 30 districts @ 8 GPs in Kharif Season and 4 GPs in Rabi season per Block and there 1GP will be added in Kharif in next subsequent year.

- A. **Roving pest surveillance by AAOs-** The target for surveillance area by AAOs is 600 ha per block in Kharif season and Rabi is 400 ha per block and there is provision of Rs 3000/- per block as surveillance support to the AAO
- B. **Field Surveillance by VAWs/AOs-** The target for pest surveillance for VAW/AO is 8 ha per day in Kharif and 4 ha in Rabi @ for four days in a week FROM Monday to Thursday. There is provision of Rs 1000/- per VAW/AO as surveillance support.

SOP for Field Surveillance

Random surveillance by VAWs/AOs

- The VAW/AO shall do the Random pest surveillance @8 ha/day in kharif & 4 ha/day in Rabi for 4 days in one week i.e. on Monday, Tuesday, Wednesday & Thursday under their jurisdiction . He/she has to cover the pest prone villages .
- Out of the targeted area of 32 ha. he/she has to report the pest incidence area of a specific crop in low/med/high intensity using the e-pest mobile app/e pest portal.
- In case of the pest is above ETL (Moderate / High) real time advisory shall be transmitted through mobile App.
- In case of un-identified pest maximum 3 close snaps of the pest / symptom of damage part of the crop may be uploaded in the **Mobile App**.
- Also he/she collect the information like total cropped area of the village, percentage of crop affected by the insects/diseases, treated area, pesticide used etc. and submit to the BAO (or AAO in absence of BAO) on Thursday AN .
- The crop pest specific advisories issued by Ama krushi shall be disseminated to the farmer , 1 copy for each week should be available in the GP Office.
- In case of pest emergency VAWs/AOs will immediately inform to AAOs / BAOs concerned who will in turn intimate the same to the ADO & CDAO .
- Necessary online permit may be generated for the farmer in case of pest attack under Need based plant protection scheme.

Roving & Pest Surveillance by AAOs

- The AAO of the block to cover the pest prone areas as and when required from Aug-Nov in Kharif and Dec- April in Rabi season.
- The target for Kharif is 600 ha whereas Rabi season is 400 ha.
- Roving survey shall be conducted in those areas which was not covered by VAWs/AOs)
- The AAO to verify the baseline pest surveillance data of VAWs/AOs and submit the consolidated online pest report including the area covered and intensity of pest attack.

Agriculture District Officer:-

- Agriculture District officer will monitor the pest situation of the ADO circle and verify the on-line data submitted by AAOs/BAOs of different blocks for all the crops. The advisory of the un-identified pest given by the BAO/ AAOs may be verified on each day within 24 hrs of data entered by VAWs/LVAWs/AOs in **Mobile app** and if identified at ADO level, then submitted the required advisory in the **Mobile App**. If not identified at ADO level within 24 hrs of data entered by VAWs /AOs, then automatically it will be passed to the concerned Dept of OUAT/ JDA(PP).
- The Block wise on-line weekly pest report submitted by the AAOs for all the crop should be visible to ADO on Thursday AN to Friday 12 noon in the web page www.epestodisha.nic.in. The Block wise

on-line data submitted by the AAOs/BAOs for all the crops should be compiled on every Friday (10.30 AM to 2.30 PM) & uploaded in the web page www.epestodisha.nic.in .

- In case of Random surveillance by VAWs/AOs the weekly review shall be taken. The ADOs should ensure cent percent surveillance by the field functionaries to the Nodal officer.

Chief District Agriculture Officer:

- Concerned CDAO will validate the data of the blocks under his/her jurisdiction after thorough checking.
- CDAO is the district nodal officer for pest surveillance and he shall monitor the pest situation by regular intervals or weekly meetings Without any pest surveillance data of a particular village /farmer, CDAO cannot implement Need Based Pesticides available under any scheme in the district either under demonstration or under subsidized scheme.
- In case of major pest incidence like BPH, Swarming Caterpillar, FAW, YMV, Tobacco leaf eating caterpillar, Locust , CDAO shall report daily basis regarding the pest incidence area and action taken report to the JDA (PP) for submission at higher quarter.

District Pest Surveillance and Monitoring Team:

The District Pest Surveillance and Monitoring Team consists of CDAO, ADO, Scientist, KVK/ Scientist from RRTTS, BAO of the hqr block & . Scheme Officer at CDAO level will visit the moderate to high pest attack areas and appraise the District Collector & Director of Agriculture & Food Production (Odisha) regarding the extent of Pest incidence

State Level Pest Monitoring Team:

To monitor the Implementation and report to Government , A& FE Department on occurrence and management of any major pest occurrence.

- Director Agril & Food Prodn, Odisha – Chairman
- JDA, Plant Protection - Contact Officer
- Dean, Extension ,OUAT - member
- Proff & Head , Entomology & Plant Pathology – member
- CIPMC ,Bhubaneswar ,NIC Bhubaneswar – member

Other Information for Monitoring

GP wise Data compilation & uploading by AAO of the Block – Thursday AN to Friday 12.00 Noon.

Weekly pest data verification at ADO Level- by 2.30 PM

Confirmation of Block Data at CDAO Level- Friday by 4.00 PM

State Level Data interpretation by JDA (PP)- Saturday 10.00 – 12.30 PM

2: Krushi Unnat Sahyogi programme (KUS) Internship for the students associate Programme

- a. KUS is a unique apprenticeship or Internship program of of A& FE Department. As per ICAR guideline this programme shall be implemented in the field of extension work for 3 months (September, October & November) during pest occurrence time in Kharif with a main objective to go for pest surveillance in farmers field and other Schematic awareness activities as given below. The final year B .Sc. Agriculture/ horticulture students from OUAT & other recognised Universities of the State of Odisha shall be eligible to participate in this internship programme duly recommended by their concerned universities in advance to the academic session for approval at government level.

b. **Target area of operation and implementation period:** 800 Agriculture /Horticulture student associates from OUAT (all Colleges) and other ICAR recognised Universities/Colleges in the state of Odisha shall be participated for a period of 3 month during **September to November in each year from 2023 to 2028** . The number of students per block shall be @ 2-3 covering all 314 blocks across 30 districts.

c. **Activities to be covered by KUS students:** There will be 5 day Field activities from Monday to Friday in a week from 10 AM to 5 PM . In those five days they have to do the following activities. Activity wise targets will be set for each block at the beginning of the program, based on which performance of associates will be monitored by AAOs weekly. **Mandatory activities**

- Five Days mandatory activities in the ground (Mon –Fri)

Monday:

What to do	Schemes	Farmers Survey
Interactions with the GP level Extension staff in the GP sitting	Farm Pond +, Watershed , MKUY, BALARAM, Micro Irrigation, Agri entrepreneur, IFS / Ama Krushi Helpline/ Departmental Govt portal /GO SUGAM etc	@ 20 to get feedback on Awareness & benefits

Tuesday

What to do	Schemes /Activities	Farmers Survey
e-Pest Surveillance- 2 ha through e Pest App	Soil health card / DBT system/input availability/dealer availability/ bio-pesticides use / Farm-Mechanization/ Crop insurance etc	@ 20 to get feedback on Awareness & benefits

Wednesday

What to do	Activities	Input Dealer Survey
Visit input dealers 1 FPO, 2 SHGs and 2 PACS/LAMPS for interaction.	Awareness on /DBT / use of computer /PoS machine/ Validity of license/ Qualification/Price list display and.	@ 5 input Dealers per day

Thursday

What to do	Activities	Farmers Survey
e-Pest Surveillance @ 2 ha through e Pest App	Horticulture activities PMKSY/Food Processing unit /Orchard / Fruit and vegetable nursery/Crop diversification/Market linkage	@ 20 to get feedback on Awareness & benefits

Friday-

What to do	Activities	Other Activities
Report to Block level Agriculture / Horticulture /Soil conservation officers	Learn on all the operational guideline on ongoing schemes and Apps for making awareness among farmers during farmer survey	Discuss some Problems of farmers submit the success stories/feed back

- d. **Selection of Student associates:** -The Dean of concerned Colleges will select final year B .Sc. Agriculture/ horticulture students and allot the blocks on mutual consultation @ 2/3 number of students per block and submit the list by 15th July to JDA,PP. The list shall contain name, mobile no, email id and complete bank details of the students.
- e. **KUS co-ordinators & formation of Group:** Three AAOs in office of JDA,PP shall act as KUS coordinators and ADA,PP shall act as Nodal Officer. The concerned College in consultation with ADA ,PP and the KUS co-ordinators will create the whatsapp group for the students to monitor the day to day activity .The KUS co-ordinators will report to ADA,PP once in week. There will be periodical review by the Nodal Officer for appraisal to Director Agriculture.
- f. **Registration of KUS students:** The list of students shall be informed by JDA,PP to ADAPT Cell for registration and creation of students ID .
- g. **Virtual Orientation training at State Level to the Student** -There shall be one day virtual Orientation training programme in 3 batches on different ongoing schemes .There shall be provision for @Rs1000/-per resource person for delivery of the presentation.
- h. **Time line:** The period of KUS programme is for 3 months from 1st September to 30th November in each year.
- i. **KUS Stipend and Award of certificate :**Each student having minimum 70% attendance recorded in KUS app will be eligible to get stipend @ 21000/- and completion certificate for completion of 3 months of the internship period programme from the concerned CDAO .Concerned BAO will submit the report to CDAO prior to award of certificate . Any student, if discontinues after joining is neither eligible to get stipend nor to get the Completion Certificate.
- j. **Performance evaluation of student associates and Felicitation:** The parameters for the score card like attendance (30),farmers survey (30), pest surveillance 30 , 5 marks from success story and 5 marks from feed back will be used as performance indicators . 5% of the students Associates limited to maximum 40 students selected on the basis of their performance captured in the KUS App will be awarded on the basis of their highest performance. Best performance Certificate for all student associates will be issued after completion of the programme by the respective CDAO.

- k. **Evaluation Marks sheet:** The evaluation marksheet for each activity including attendance will be maintained in ADAPT Dashboard by ADAPT and will be informed to JDA,PP& concern Dean after the internship is over.
- l. **Allocation of block to KUS students:** The College wise district will be allotted by Directorate of Agriculture and the concerned Dean will allocate the block to the student associates on mutual consultation. The total no. of students per district will not be changed and CDAO can reshuffle the students from one block to other within the respective district as per the demand of work of the blocks before the implementation period /prior to Orientation Training in consultation with the concerned Dean of the College.
- m. **Cotton and Maize pest surveillance:** In case of cotton and maize growing districts and in view of incidence of Cotton Bollworm and Fall Army Worm in Maize pest surveillance will be undertaken for **three days** (Monday, Wednesday and Friday).

3 . Farmers Assistance (Subsidy) for Need Based Plant Protection and Bio-Pesticide

Beneficiary: Small and Marginal Farmers

The small /marginal farmers having any pest -disease incidence in their crop field or for any preventive crop protection measures can get financial assistance of Rs 1000/- per ha after purchase of Pesticides/Biopesticides from the registered dealers through **DBT in need based inputs' portal** (the URL is <http://dbtinpuodisha.nic.in>). A small/marginal farmer can avail assistance maximum up to 2 ha for Need Based Plant Protection in the standing crop and financial assistance maximum up to Rs 2000/ha on 50% of the cost of pesticide/bio-pesticide which ever is less shall be provided through DBT. The system will be monitored by NIC Odisha through the portal. For enhancement and popularization of bio Pesticides ,effective bio pesticides may also be recommended to farmers for management of the pests .

VAW/AOs of the GPs will do the pest surveillance and will issue online permits to the needy farmers for purchase of the pesticides on subsidy from the registered dealers through DBT using need based app.

1. The S/M farmer having farmer ID and mobile number having any pest incidence in his field need to contact either **VAW/AO** of his locality / block for purchase of any plant protection input /product (insecticide/fungicides/bio-pesticides).
2. By using the Mobile App the VAW will suggest the plant protection product from the Expert Committee Recommendation for the year 2021-22, verify his cropping area , will issue the permit and forward it to the nearby registered dealer of the block followed by an OTP number which will be delivered to the farmer & dealer through SMS to his/her registered mobile number.
3. The farmer will purchase the recommended product from that dealer using the OTP number and the dealer has to confirm the purchase.
4. After confirmation by the dealer, the beneficiary & product details will be shown to AAO/BAO dashboard and AAO/BAO of the block after verification of the subsidy amount and beneficiary details, concerned AAO/BAO will submit list to CDAO within 7 days for transfer of fund to the beneficiary.
5. CDAO will release the payment to the beneficiary account within 3 days through NEFT/ RTGS/ PFMS mode.
6. In case the farmer's mobile number is not mapped to the farmer ID then the permit will be generated by VAW/AO after providing the alternative mobile number in VAW app.
7. In case of pest urgency and areas where there is no network available VAW can issue manual permit to the farmer after due approval of BAO and the subsidy admissible will be released to the farmers account through NEFT/RTGS mode after approval of DA&FP (O)
8. The quality control inspectors to draw random samples from the concerned registered dealers/ PACS and action as per Act/Rule /Control order of respective inputs will be taken in case of substandard

/mis-branded products.

4- Running & Maintenance of server/portal: There are three number of portals developed by NIC Odisha are maintained and run by NIC Odisha .These are as follows,

- a. <http://odishaagriclicense.nic.in> for e-Licensing seeds,fertilizer,insecticides,
- b. <http://dbtinputodisha.nic.in> for need based PP (50% subsidy) for all schemes of DA&FP,Odisha,
- c. <http://epestodisha.nic.in> for monitoring and reporting pest incidence

For Maintenance, Monitoring and Reporting the NIC Odisha needs manpower support engaged by them and the charge is borne by Directorate of Agriculture & FP. Pest forecasting Model developed by NRRI shall be implemented in consultation with Director, NRRI.

5- Farmer camps on Pest Management with Safe Use of Pesticides

Pest management Farmers Camps on Major Pests (FAW in Maize, Cotton Pest,Swarming caterpillar & BPH in Paddy,Tobacco caterpillar in pulses to be organized in different districts depending on the occurrence of the Pest Incidence.

Farmers should be trained on Integrated Pest management and Safe Use of Pesticides asthese are of prime importance to safe guard the adverse effects of pesticides use on crop protection. The farmers IPM practices and in case of chemical management use of pesticides viz type of pesticides, right dose, right time, right recommended pesticides, precautions, using of spraying equipment , protective clothing general hygiene , techniques of spraying and first aid treatment , pesticide residue ,safe use of pesticides,harmful effect of pesticides etc.

Role of BAO: Farmers covering different villages of the GP may be invited and awareness shall be made so that the resource person shall disseminate their training knowledge to other farmers in his village on quick & effective Pest Management with safe Use of Pesticides

The resource persons for the training programme will be ADO, BAO, KVK Scientist.

Role of CDAO: CDAO to distribute the target of training to the blocksdepending on pest situation and pest surveillance and the funds shall be released to concerned BAOs accordingly. The CDAO to take periodic review and submit the progress report (both physical and financial) to JDA, PP. The block where there is no BAO, the target as well as the fund shall be distributed /allotted to the AAO of the concerned block.

Indicative Cost structure of Pest management farmers camp with SUP@Rs 200/- per Farmer (50 farmers)

Sl. No.	Item	Amount in Rs.
1	Working lunch for 50 participants @ Rs 100	Rs 5000/-
2	Honorarium (3) @Rs 500/- i. IPM practice ii. Effective Pest Management for predominant pest iii. Safe Use of Pesticide	Rs 1500/-
3	Printed literature and training material	Rs 2000/-

4	Misc. Contingency including banner, documentation, photograph	RS 1500/-
	TOTAL	Rs 10000/-

6-Quality analysis of Pesticides , Bio-pesticides & Pesticide Residue :

a. Pesticides analysis: For quality control of Pesticides and Bio pesticides and to check the spurious use of pesticides random samples @ 3 Chemical Pesticides samples and @1 Bio pesticide sample per Block are to be drawal & collected from the local registered Pesticide dealers and manufacturers by the Quality Control Inspectors irrespective of their area of jurisdiction. The samples are to be sent to Central Insecticide Testing Laboratory . The analysis fees ,handling cost and cost of sample for 4 no of samples is Rs 28996/-per Block.

Role of AAO (quality control inspector for insecticides): The AAO to draw the pesticides /bio-pesticides /herbicides where there is no facility to test in the State Insecticide Testing Laboratory , Bhubaneswar. The sample should be drawn which are related to the schematic Use by the farmers .(any scheme of DA&FP)

Role of CDAO : CDAO to distribute the target of pesticide samples among two AAOs of the block depending on the availability of dealer network under AAOs jurisdiction and the funds shall be released to concerned AAOs accordingly. The CDAO to take periodic review and submit the progress report (both physical and financial) to JDA, PP. The block where there is no AAO, the target as well as the fund shall be distributed /allotted to the AAO placed under ADO Circle.

b. Pesticide Residue Testing: NRRI ,Cuttack is having one Pesticide Residue Testing laboratory a RKVY funded Project with a annual capacity of testing 2000 samples. The AAOs shall be informed to collect the food grain samples for pesticide Residue Testing at NRRI. A committee shall be formed under the chairmanship of Head plant protection division, NRRI with other members like Dean Research ,OUAT JDA(QC), JDA(PP),JDH, to monitor the harmful effect of Pesticide Residue.

100 harvested grain samples will be collected from the farmers of Urban areas by the AAOs (Quality Control Inspector ,Insecticide) for testing the pesticide residue at Head, Crop Protection Division, NRRI,Cuttack. The analysis cost per sample is Rs 11000 /- per sample which will be paid to NRRI.

Administrative Expenditure by State Nodal Officer(JDA,PP): The administrative overhead expenditure of includes cost towards monitoring the schemes at state level . The unspent balance of one year may be carried over to the next year to meet the expenses till the completion of project.

Source Of Funding for the Scheme and fund flow Mechanism

The sub scheme will be funded from SSS(State Sector Scheme) 3714- Crop Production Management .District wise allocation of fund will be done by DA&FP ,odisha, after sanction of funds which will be allotted to the CDAOs and respective DDOs. The component wise financial programme as approved in the SFC meeting held on 13.3.2023 (wrt to Lno DAFE-6592 dated 21.3.23) is given below-

SI No	Activity	2023-24	2024-25	2025-26	2026-27	2027-28	5 Year total
1	e-Pest Surveillance and monitoring by AAOs & VAWs (physical area in lakh ha)	23.20	25.20	27.25	29.30	31.30	136.25
	Financial in Rs lakh	34.54	37.68	40.82	43.96	47.1	204.10
2	KUS internship student associate programme @ 800 students per year	800	800	800	800	800	4000

	KUS internship stipend @ 21000 / per student for 3 months	168.00	168.00	168.00	168.00	168.00	840.00
	Need Based PP& bio-pesticides in ha	30000	27000	23000	19000	20000	119000
3	Farmers Assistance (subsidy) for Need Based PP & bio-pesticides 50 % of the cost limited to @ 1000/ ha	300.00	270.00	230.00	190.00	200.00	1190.00
4	Maintenance & running 3 Portals by NIC	18.00	18.00	18.00	18.00	18.00	90.00
	Farmers Camps on Pest Management with SUP in Nos.	200	200	200	200	200	1000
5	Farmers Camps on Pest Management with Safe use of pesticides @ 10000/ per camp for 50 farmers @ 200/ farmer	20.00	20.00	20.00	20.00	20.00	100.00
	No of Pesticides @3 per block /Bio-pesticides @1 block	1256	1256	1256	1256	1256	6280
6 a	Quality analysis of Pesticides and Bio-pesticides @6500 + 749/- analysis + handling/sample cost	91.05	91.05	91.05	91.05	91.05	455.25
6 b	Quality analysis of 100 samples in urban areas of harvested Grains for testing Pesticide Residue @ 11000/- at NRRI	11.00	11.00	11.00	11.00	11.00	55.00
7	Administrative Expenditure by State Nodal Officer (JDA,PP) for monitoring and miscellaneous cost	1.96	1.82	1.68	1.54	1.40	8.40
	Total	644.55	617.55	580.55	543.55	556.55	2942.75

Programme Outcome- To save crop and reduce crop loss due to occurrence of various disease pest is the main objective of the programme is to check the spread of disease -pest incidence in paddy , cotton and maize and other important crops in cropping season through pest surveillance and provide assistance to farmers for purchase of need based pesticides /bio-pesticides for disease -pest control. This should be an on-going project for every year as it is essential component of crop protection .After natural calamity , pest occurrence also makes huge crop loss and the socio-economic condition of the farmers get affected severely in that locality. So , the benefit of the scheme cannot be measured in terms of money as it the essential service to the farmers to extend assistance towards need based plant protection to save the crops from pest attack.

Monitoring and Evaluation: The Evaluation process by third party is to be made at the end of 3rd year and sensitization of farmers in the scheme shall be done by the extension functionaries.

Forms for application by the Beneficiary (if any) : No

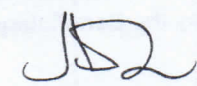

Principal Secretary to Government

	KUS internship stipend @ 21000 / per student for 3 months	168.00	168.00	168.00	168.00	168.00	840.00
	Need Based PP& bio-pesticides in ha	30000	27000	23000	19000	20000	119000
3	Farmers Assistance (subsidy) for Need Based PP & bio-pesticides 50 % of the cost limited to @ 1000/ ha	300.00	270.00	230.00	190.00	200.00	1190.00
4	Maintenance & running 3 Portals by NIC	18.00	18.00	18.00	18.00	18.00	90.00
	Farmers Camps on Pest Management with SUP in Nos.	200	200	200	200	200	1000
5	Farmers Camps on Pest Management with Safe use of pesticides @ 10000/ per camp for 50 farmers @ 200/ farmer	20.00	20.00	20.00	20.00	20.00	100.00
	No of Pesticides @3 per block /Bio-pesticides @1 block	1256	1256	1256	1256	1256	6280
6 a	Quality analysis of Pesticides and Bio-pesticides @6500 + 749/- analysis + handling/sample cost	91.05	91.05	91.05	91.05	91.05	455.25
6 b	Quality analysis of 100 samples in urban areas of harvested Grains for testing Pesticide Residue @ 11000/- at NRRI	11.00	11.00	11.00	11.00	11.00	55.00
7	Administrative Expenditure by State Nodal Officer (JDA,PP) for monitoring and miscellaneous cost	1.96	1.82	1.68	1.54	1.40	8.40
	Total	644.55	617.55	580.55	543.55	556.55	2942.75

Programme Outcome- To save crop and reduce crop loss due to occurrence of various disease pest is the main objective of the programme is to check the spread of disease -pest incidence in paddy , cotton and maize and other important crops in cropping season through pest surveillance and provide assistance to farmers for purchase of need based pesticides /bio-pesticides for disease -pest control. This should be an on-going project for every year as it is essential component of crop protection .After natural calamity , pest occurrence also makes huge crop loss and the socio-economic condition of the farmers get affected severely in that locality. So , the benefit of the scheme cannot be measured in terms of money as it the essential service to the farmers to extend assistance towards need based plant protection to save the crops from pest attack.

Monitoring and Evaluation: The Evaluation process by third party is to be made at the end of 3rd year and sensitization of farmers in the scheme shall be done by the extension functionaries.

Forms for application by the Beneficiary (if any) : No


Principal Secretary to Government

Annual Action Plan Need Based Plant Protection under state plan for FY 2023-24

(A sub-scheme under newly created State Sector Scheme-3714-Crop Production Management)

SI No	Activity	Physical Programme				Financial Programme (Rs in lakh)			
		N	SCP	TASP	Total	N	SCP	TASP	Total
1	e-Pest Surveillance and monitoring by AAOs & VAWs (physical area in lakh ha)	13.92	3.944	5.336	23.2	20.72400	5.87180	7.94420	34.54000
2	KUS internship student associate programme @ 800 students per year and Stipend Rs 21000/-per student	480	136	184	800	100.80000	28.56000	38.64000	168.00000
3	Farmers Assistance (subsidy) for Need Based PP & bio-pesticides 50 % of the cost limited to @ 1000/ ha	18000	5100	6900	30000	180.00000	51.00000	69.00000	300.00000
4	Maintenance & running 3 Portals by NIC					10.80000	3.06000	4.14000	18.00000
5	Farmers Camps on Pest Management with Safe use of pesticides (SUP) @ 10000/ per camp for 50 farmers @ 200/ farmer	120	34	46	200	12.00000	3.40000	4.60000	20.00000
6	Quality analysis of Pesticides and Bio-pesticides @6500 + 749/- analysis + handling/sample	754	213	289	1256	54.65746	15.44037	20.94961	91.04744



	cost								
	Quality analysis of 100 samples in urban areas of harvested Grains for testing Pesticide Residue@ 11000/- at NRRI	60	17	23	100	6.60000	1.87000	2.53000	11.00000
7	Administrative Expenditure by State Nodal Officer (JDA,PP) for monitoring and miscellaneous cost					1.14899	0.37133	0.44224	1.96256
	Total					386.73045	109.57350	148.24605	644.55000

Director of Agriculture &

Food Production, Odisha