

# PROMOTION OF IMPROVED PACKAGE OF PRACTICES (STATE SECTOR SCHEME)

2024-25

Department of Agriculture and Farmers Empowerment, Odisha

## REVISED OPERATIONAL GUIDELINE FOR IMPLEMENTATION OF GREEN MANURING OF DHANICHA UNDER "PROMOTION OF IMPROVED PACKAGE OF PRACTICES" (SSS) DURING 2024-25.

### 1. Background :-

Odisha is predominantly an agrarian state with 70% of its population drawing their sustenance fully or partly from Agriculture sector. Rice as the main food crop of the state is cultivated over an area of about 40.14 Lakh ha. The state has a cultivated area of 61.80 lakh under which paddy is the major crop. Our state is having a wide range of soil types which differ widely in physico-chemical properties. Soils are mainly acidic with varying degree of acidity varying widely. Though the fertiliser consumption in the state is increasing due to increase in farmer's awareness, but due to imbalanced use of nitrogenous fertiliser it may create alarming situation in near future.

Odisha is having geographical area of 155.71 lakh hectares in the state, out of which cultivated area is 61.80 lakh hectares only. 70% of total soil is acidic indicating the need for special interventions like soil testing and administration of adequate dose of balanced fertilizer and micronutrient in appropriate manner. Rice is being the main crop of the state constituting of approximately 70% of cultivable area. Out of critical inputs like seed, irrigation, crop loan, fertilizer plays important role contributing more production & productivity of rice. To minimise dependence on nitrogenous fertilizer, green manuring of "Dhanicha" is being promoted in our state, which also helps enhancing organic status of the soil & reducing acidity.

### 2. Programme Objectives

To ensure sustainability of production system it needs to ensure that there should not be degradation of natural resource like soil and water on which future rice production is totally dependent. For that balanced use of fertilizer is gaining importance. Long-term use of optimal doses of NPK with farm yard manure or compost improves the soil physical health. Green manuring with "Dhanicha" is at par or even superior to chemical nitrogen applied. Use of Dhanicha as green manuring enhances population of beneficial microbes as well as ensures environment for plant growth. All these add to the sustainability and enhanced stability to production of rice. Even though technologies are available to increase the food production, the cost of inputs used in agriculture has considerably increased after the introduction of new technology. Hence there is necessity of low cost and no risk technology in our state. In this context the importance of green manuring of Dhanicha is being proposed for adoption by large section of small and marginal farmers to ease the extra burden for purchase of costly nitrogenous fertiliser. In addition to Green Manuring, they are encouraged to take Dhanicha in field bond which helps to reap Dhanicha seeds for their future use as well as they can sell the farms saved



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seeds to OSSC Ltd.

### **3. Coverage under the Scheme/ Programme and duration**

#### **Strategy:-**

It is proposed to provide 25 Kg of Dhanicha Seeds to the farmer under green manuring of Dhanicha. An amount of Rs.500.00 will be paid to the farmer as incentive towards land preparation/sowing & application of SSP in the dhanicha crop . It has been estimated to cover **51126 hectares** on Green manuring of Dhanicha under "Promotion of Improved Package of Practices" (State Sector Scheme) during 2024-25.

#### **1. Seed cost of 25 Kg. per ha.**

**@ Rs.2222.25/Ha for 51126 ha. = Rs. 11,36,14,753.50**

#### **2. Incentive to farmer for Land preparation /**

**sowing of seeds @ Rs.500.00/Ha for 51126 ha. = Rs. 2,55,63,000.00**

#### **3. Incentive to Krushak Sathi**

**@ Rs.100.00/Ha for 51126 ha. = Rs. 51,12,600.00**

**4. Administrative cost @ Rs.102.75 per ha for 51126 ha. = Rs. 5253196.50**

**Total for 51126 ha. = Rs.14,95,43,550.00**

**N.B.: IF EXCESS SEED COST IS REQUIRED, THEN IT MAY BE MET FROM THE ADMINISTRATIVE COST FOR THE FY 2024-25.**

#### **Area of Operation:**

The demonstration should be conducted in a continuous/ contiguous of not less than 10 ha. under this scheme and will be called as one cluster. All the selected farmers of that area will be motivated to adopt the recommended package of practices. For an individual farmer, the area under demonstration should not exceed 2 hectare.

#### **Selection of beneficiaries:**

- a. The area and beneficiaries previously covered under the programme should not be repeated.
- b. The AOs/ VAWs will select & motivate the interested farmers with the help of Krushak Sathi for adoption of package of practices under the scheme. Beneficiaries should be selected in consultation with PRI members. Farmer's ID, Adhar No. & contact no. is mandatory for selection of beneficiary.
- c. The standing norms of social categorization (i.e. General, SC, ST & Women) shall be followed while selecting beneficiary under different category.
- d. The farmers will register his/her name with the local AO/ VAW for demonstration incentive under this scheme with their land records i.e. Village ,G.P ,Khata No., Plot No., Area/ DBT Registration No./ Aadhar Card No./ EPIC No. and Bank account particulars with IFS Code & Branch.



- e. The farmer will apply in a prescribed form as annexed at Annexure – I for availing the assistance.

**Selection of site:**

- a. Preference should be given to the villages /Gram Panchayats where productivity of rice is lower and the same have not been included earlier under the scheme.
- b. The site of cluster demonstration should preferably be in road side & easily accessible for the farmers, extension workers and scientists. It should not be in an isolated field having assured irrigation.
- c. Pani Panchayats may be given priority in the irrigation clusters. Irrigated clusters are to be confined to the ayacut of the Pani Panchayat. Normally, the ayacut of one canal /distributory be included under a single patch.
- d. Baseline data of the cluster where demonstrations will be taken up should be collected.

**Identification of Intervention to be adopted:**

The following technologies have been identified for demonstration under the scheme Green manuring of Dhanicha (i) supply of Dhanicha seed (ii) application of SSP in dhanicha (iii) Green Manuring of Dhanicha followed by line transplanting in paddy crop.

Dhanicha (*Sesbania aculeata*) is mainly used for green manuring in situ. The crop is sown in the first fortnight of June by availing the pre-monsoon rains. The crop grows with the pre-monsoon rains. When the crop is 6-7 weeks old and just before the flowering, it is buried in the soil with the help of the plough and water is impounded for 2-3 days. Thereafter final puddling is done and paddy is transplanted. This practice adds about 12-15 t of green manure and 60-70 kg N/ha.

**Operational Modalities:**

- a. BAO will approve the beneficiary list and then seed demand will be calculated/ generated for each farmer and consolidated report will be submitted to ADO for placing indent to OSSC Ltd. for supply of required quantity of seeds.
- b. Concerned ADO & CDAO, Boudh / Deogarh will place indent with OSSC Ltd. for supply of Dhanicha seeds as per the approved programme. OSSC Ltd. will supply required quantity of seeds at block point. The cost of @ 25 Kg. of Dhanicha seeds will be paid to the account of OSSC Ltd. through DBT by the concerned CDAO/ADO after submission of bills by OSSC Ltd. along with challans duly counter signed by the BAO/AAO regarding distribution of seeds and detail list of the farmers.
- c. The seed cost claimed by OSSC Ltd. may be released by the concerned CDAO/ADO following the DBT modalities (L. No. 23598 dt.05.08.2021 by the Directorate of Agriculture & food Production (O), Bhubaneswar.)
- d. After 15 days of sowing of the crop, an amount of @ Rs.500/- per ha. will be paid to



the beneficiary through DBT towards land preparations for sowing of seeds and application of SSP in the dhanicha field. The fund will be released as per recommendation of AO/VAW and validated by the concerned BAO and finally approved by the ADO.

- e. The DBT modalities for transfer of funds to the farmers should be followed as per the "Modalities for transfer of Fund of demonstrations to farmers account through DBT" communicated vide L. No. 23598 dt.05.08.2021 of the Directorate of Agriculture & food Production (O), Bhubaneswar.
- f. Incentives towards Conveyance and supervision charges @ Rs.100/- per ha. of demonstration will be paid to the implementing Krushak Sathis through e-transfer/ DBT after Crop Cutting Experiment of Paddy, transplanted after the sowing of Dhanicha.

#### 4. Implementation of the Scheme/ Programme

1. The District wise area under this scheme will be decided at the Directorate level after discussion with the CDAOs and will be communicated to the ADOs well ahead of the session. If needed CDAOs can make an interchange of areas within range under intimation to the Directorate of Agriculture.
2. A District level committee will be formed including a member from ITDA in TASP areas for allocation of programme in TASP area. For selection of beneficiaries in TASP area, consultation with ITDAs will be a part of the selection mechanism and the scheme will be implemented in convergence mode with the "Mission Jeevika"- livelihood scheme of ST & SC Department.
3. The ADOs will allocate the area among different blocks under their jurisdiction and will upload the block wise target in ADAPT portal. Then BAO/AAO of the concerned block will allocate G.P. wise area to the concerned A.O./ VAW and upload the same in ADAPT portal.
4. The programme will be implemented with active involvement of Krushak Sathis. The BAO/AAOs/ AOs/VAWs of the concerned area will monitor demonstration and will be accountable for success of the programme.
5. The BAO/AAOs/AOs/ VAWs/ Krushak Sathis will create awareness among the farmers regarding the benefits of Green Manuring of Dhanicha followed by line transplanting in paddy crop.
6. The concerned districts will be given 150% physical target against the approved Annual Action Plan to achieve 100% financial expenditure.
7. The AOs/ VAWs will prepare the list of beneficiaries with the help of Krushak Sathi in consultation with PRI member and submit the same to the concerned BAO/AAO. Standing norms of social categorisation of women (30%) shall be followed while selecting beneficiaries under the scheme. The BAO/AAO of the block will compile, countersign and submit the same to the concerned ADO.





## **5. Source of funding for the Scheme/ Project and fund flow mechanism**

The provision of funds for implementing the program will be made annually under State Sector. The approval of Action Plan under this programme would be finalized by Government level in consultation with Districts. Department of Agriculture & Farmers' Empowerment will release the funds to Directorate of Agriculture and Food Production, Odisha (D.A. & F.P.). DA & FP Odisha will release the funds for district level activities to CDAO/ADOs concerned. The concerned CDAOs/ ADOs will release the funds towards payment of incentives to the beneficiary farmers, Krushak Sathis, payments for supplying seeds to OSSC Ltd. etc.. Fund transfers from D.A.F.P & CDAO to relevant stakeholders shall be done electronically through DBT (NEFT / RTGS) mode as per the L. No. 23598 dt.05.08.2021 of the Directorate of Agriculture & food Production (O), Bhubaneswar .

## **6. Intended Scheme/ Programme Outcome**

Green Manuring of Dhanicha programme is mainly implemented to create awareness among the farmers regarding maintenance of soil health by using Dhanicha to enhance organic matter status of Soil, reducing acidity to have sustainable crop production, reducing input cost through less use of Nitrogenous fertilizer, improvement of climate resiliency and overall improvement of soil health.

## **7. Monitoring & Evaluation mechanism**

1. After conducting the demonstration the AO/VAW will immediately intimate to the BAO/AAO for verification in the field.
2. The local AO/VAW will verify 100% of the demonstration plot and will recommend the same to the AAO who will verify at least 40% of the demonstration plots and recommend the same to the BAO. The BAO will verify at least 20% of the demonstration plots and recommend the same to the ADO. The ADO will verify at least 10% of the demonstration plots who will release the fund to the concerned beneficiary through DBT mode. The CDAO will verify at least 5% of demonstration plot.
3. The BAO/AAO concerned will monitor the uploading of the MPR in the Agri-Extension App by AOs/VAWs every month and approve the same in the ADAPT portal. Similarly ADO will monitor the approval of uploaded MPR in the ADAPT Portal by BAOs/AAOs every month.
4. CDAOs concerned will monitor the scheme and will review the scheme in every month with concerned ADO. CDAOs concerned will also ensure uploading of MPR in the ADAPT portal and submit MPRs to the Director of Agriculture & Food Production (O).
5. Proper documentation will be done at BAO, ADO & CDAO level. Success Stories, Outcome of the Project, Impact Analysis with Photograph etc will be furnished by each ADO.

  
Scheme Officer (PIPP)

  
JDA (SP&C)

  
Director, A&FP, Odisha

8. Forms for application by the beneficiaries

Annexure – I

**APPLICATION FORM FOR AVAILING ASSISTANCE OF GREEN MANURING OF  
DHANICHA UNDER STATE SECTOR SCHEME**

Year- 2024-25

Season- Kharif

1. Name of the Farmer :

2. Fathers Name :

3. Address :-

a. Village :

b. G.P. :

c. Block :

d. Contact No. :

4. Area (in Ha.) for availing incentive for Green

Manuring-cum-Seed Production of Dhanicha

5. Name of the Project Village :-

a. Khata No. :

b. Plot No. :

c. Area (in Ha.) :

d) Farmer's ID

e) Account No. IFS Code

f) Bank & Branch :

Recommendation of VAW/ AO

Signature of the Applicant

Name:

G.P.

Countersigned

B.A.O./A.A.O