

Guidelines for the implementation of NFSM- Coarse Cereals

The Mission met with an overwhelming success and achieved the targeted additional production of rice, wheat and pulses. The Mission is being continued during 12th Five Year Plan with new targets of additional production of food grains of 25 million tons of food grains comprising of 10 million tons rice, 8 million tons of wheat, 4 million tons of pulses and 3 million tons of coarse cereals by the end of 12th Five Year Plan.

The National Food Security Mission (NFSM) during the 12th Five Year Plan will have five components (i) NFSM- Rice; (ii) NFSM-Wheat; (iii) NFSM-Pulses, (iv) NFSM-Coarse cereals and (v) NFSM-Commercial Crops.

Objectives

- Increasing production of coarse cereals through area expansion and productivity enhancement in a sustainable manner in the identified districts of the country;
- Restoring soil fertility and productivity at the individual farm level; and
- Enhancing farm level economy (i.e. farm profits) to restore confidence amongst the farmers.

Criteria for Identification of Areas and Beneficiaries

- In accordance with the decision of the Government of India regarding implementation of Special Component Plan (SCP) for Scheduled Castes and Tribal Sub-Plan (TSP) for Scheduled Tribes, 16% of the total allocation for SCP and 8% for TSP will be earmarked.
- The allocation to SC/ST farmers will be made proportionate to their population in the district.
- At least 33% allocation of the fund is to be made for small and marginal farmers.
- At least 30% allocation of the fund is to be made for women farmers.

Accelerated Crop Production Programme (ACPP) Large blocks of crop areas will be taken up for demonstration of production and protection technologies in a cropping system based mode. A cafeteria of crop specific interventions (bio-

fertilizers, nutrients, plant protection chemicals, weedicides etc.) approved by Government of India has been illustrated (Annexure-I)

1) Demonstrations

i. Field demonstrations of improved package of practices will be conducted on cropping system as well as on sole crop.

ii. The cropping system based approach which has been included under NFSM entails that demonstrations are done in cropping sequence on the same plot of land. District should conduct at least 30 % demonstrations under cropping system based approach.

iii. **Area of operation:** The demonstrations will be conducted in a contiguous block by dividing the fields in two blocks, one for improved practices and the other for farmer's practices in a cluster of 100 ha or more. Size of cluster for area will be 10 ha. The lowest productivity areas in selected districts should be given priority. Demonstrations should be evenly distributed within and among selected clusters.

iv. All farmers in a cluster would be included in a demonstration. For each farmer, at least 0.4 ha area will be included in demonstration.

v. Selection of beneficiary Farmers:

- Assistant Agricultural officer should be involved in selection of beneficiary farmers.
- Only the farmers willing to cooperate and contribute some of the resources should be selected.
- Selection of beneficiaries should be done adopting participatory approach by holding meetings in the village by explaining the objectives of the demonstrations and role and responsibilities including expectations from the participating farmers.

vi. Selection of Site:

- Demonstration site should be easily accessible for the farmers and the extension workers.
- It should not be on an isolated field.

- The selected site should be the representative of soil type and soil fertility status of the area.

vii. **Soil Analysis:** As far as possible soil fertility status of the selected field should be known well in advance for deciding the use of fertilizer and soil ameliorants.

viii. **Identification of Technologies to be demonstrated:**

- The improved practices for the demonstration plots should be identified in consultation with SAU through their Regional Research Stations/KVKs located in the area.
- However, the most critical inputs should be given top priority.
- The varieties to be included in the package should preferably be new varieties.

ix. **Development of package of inputs to be distributed:** Once the technologies are identified, a package of inputs including micronutrients and bio-fertilizers should be finalized as to which inputs are to be provided for the conduct of demonstrations. Similarly the inputs to be contributed by the beneficiary farmers (if required) may also be assessed.

x. **Distribution of demonstration kits and training of participating farmers:**

- An orientation training programme should be organized to brief the beneficiary farmers about the procedure to be followed for conducting demonstrations.
- Farmers should be informed about the critical operations for the demonstrations.
- The demonstration kits may be distributed to the farmers during the training programme.
- The demonstrations should be conducted by extension functionaries of the district under the supervision of District Consultant.

xi. **Monitoring:** District Consultants/Technical Assistants of NFSM should monitor the conduct of demonstrations throughout the cropping season and should report the outcome in prescribed format to the district level PMT. The

extension functionaries should visit the demonstration plots and arrange need based visits of scientists.

xii. **Display Board:** A display board containing the following information should be installed at the demonstration plot. In addition to other information, the display board should contain information on the critical inputs used and the interventions being demonstrated.

a) Number of farmers

b) Name of Village

c) Name of Variety/ hybrid

d) Type of demonstration

e) Fertilizers applied

f) Bio-fertilizers applied

g) Micronutrient applied

h) Date of Sowing/Transplanting

i) Seed Rate and Spacing

j) Any other critical input used

k) Mobile number of District Consultant/ Technical Assistant

- xiii. State should include more than one improved variety/hybrid in one cluster demonstration.
- xiv. **Field day:**
 - A field day should be organized during reproductive phase of the crop preferably at grain filling stage.
 - The participation of scientists from SAUs/KVKs should be ensured for critical observations and solutions of problems.
 - Some relevant extension literature like leaflets, pamphlets etc should also be made available to the participating farmers.
- xv. **Reporting of the Results:**
 - The results of the demonstrations should be compiled at block, district and the results of the demonstrations should be compiled in the form of document.

- The district should analyze the contribution of various interventions undertaken under cluster demonstrations and up-scaling of particular intervention in succeeding years.
- The district report should reach this office before 5th of every month.

11)Distribution of hybrid / certified seed

Seeds are to be purchased from the Seed producing agencies (NSC/SSCs/SAUs/ICAR Institutes/Private Companies) authorized by the State/Districts apart from seed availability in the department . Assistance for purchase of seeds will be available to selected farmers for the area not exceeding 2 ha each. Assistance for purchase of seed is as below:

Coarse Cereals

(a) Hybrids-Rs.50/kg

(b) Varieties less than 10 years old- Rs.15/kg or 50% of the cost whichever is less.

Project Management Team

The districts covered under NFSM will be entitled for one PMT if the area under any one of the NFSM crops is at least 10000 ha.

The Project Management Team will have the following responsibilities:

- Guide the districts in organizational and technical matters.
- Help in the implementation and monitoring of the various interventions of the Mission.
- Assist the districts in capacity building programmes and record the data on crop yield through crop cutting experiments.
- Assist the district in concurrent evaluation based on case studies in identified districts and document and disseminate the success stories.
- Undertake publicity/ information campaign to create awareness about the Mission activities.

Basic Qualification, Experience And Honorarium Of Advisors/ Consultants/ Technical Assistants

A. District level

i) Consultants:

1) Basic degree in Agriculture with Masters Degree in Agronomy/Agri. Extension/Soil Science/Plant Protection/Crop Improvement having at least 10 years of field experience in crop production/ Extension.

2) The person should have the ability of team leadership & motivation.

2) Technical Assistants

Basic degree in agriculture with computer skills. In case of non-availability of agriculture graduates, candidates with basic degree in life sciences may be considered.

Local Initiatives

To support important location specific interventions, which not covered under the normal activities of the Mission but can help in boosting the production of coarse cereals

a) Digging of farm points (5X5X1.5 MTs) and installation of portable mobile sprinkler.

Total 232 Nos Rs. 35.96 lakhs

Other Instructions

1. A District Level Monitoring Committee headed by the District Collector and comprising of officials as members will monitor the implementation of the scheme

- | | |
|---|-----------------|
| 1. Joint Director of Agriculture | Convenor/Member |
| 2. PA Agri to Collector | Member |
| 3. Deputy Director of Agriculture (GOI) | Member |
| 4. Scientist (KVKs) | Member |

2. Adequate publicity should be given about the scheme in News papers, AIR, leaflets, pamphlets, etc. and willingness should be invited from the farmers on plain paper.

3. The name of the farmers expressing willingness to avail benefit under the scheme shall be entered in a priority register, maintained in the AEC (Format in Annexure-I).

4. The Assistant Agriculture Officer will select the farmers from the priority register based on the seniority and will obtain application in Annexure-II from them along with the following documents.
 - a. Farmers Integrated Hand Book (FIHB) or computerized Chitta should be obtained from Taluk Office.
 - b. Identification of farmers by Voter ID / ration card or FIHB.
5. The beneficiary selected should find a place in the farm family register maintained by the Asst. Agricultural Officer.
6. Priority will be given to the farmers who have not been benefited under this scheme earlier.
7. Only after covering all the farmers in the farm family register, the AAO can recommend for repetition of beneficiaries subject to the seniority as per priority register.
8. The list of farmers selected for issue of inputs should be displayed in the notice board of the AEC and should be uploaded on the AGRISNET web site.
9. The input should be distributed immediately on receipt of application.
10. In case of back ended subsidy it should be disbursed within 60 days of sowing (Annexure III).
11. The ADAs should distribute the prescribed critical inputs such as seeds, seed treatment chemicals, micro-nutrients, fungicides, liquid bio-fertilizers, fertilizers, pesticides and weedicides etc., for the components approved by GOI without any deviation subject to change in consultation with district SAU/ KVK's .
12. **Liquid Bio Fertilizer & MN Mixture** – Procure from Departmental Production Units
13. **Weedicide, fungicide & Bio Pesticide** – Adopt approved rate and Firms communicated through PP Section of this office.
14. Besides, the savings amount if any, has to be provided to the farmer through ECS towards the critical inputs as backended subsidy.
15. The receipt of stock for critical inputs should be verified by the Assistant Director of Agriculture.

- 16.** Proper billing of inputs should be done in the Agricultural Extension Centre and record should be maintained for the transaction.
- 17.** As stipulated in the NFSM guidelines, at least 16% of the benefits should be given to SC and 8% should be given to ST farmers.
- 18.** Agriculture Officer should verify 100% of the distribution.
- 19.** The block Assistant Director of Agriculture should verify a minimum of 20% of the plots, District Deputy Director of Agriculture (GOI) and DDA(SS) each should inspect 5% of the plots and the Joint Director of Agriculture should inspect at least 2% of the demonstration plots.
- 20.** Documentation such as photos taken before and after demonstration.
- 21.** An information board displaying salient details such as name of the scheme, name of the beneficiary, year, subsidy amount etc. should be displayed in demonstration plots
- 22.** A Register of technology demonstration should be maintained with the farmer's photo affixed along with the detail of inputs distributed (format in Annexure IV). This register should be maintained at Block level and a separate register should be maintain for each year.
- 23.** After the completion of the work the AAO should make necessary entries in AGRISNET for each beneficiary. Documentation should be done by uploading the success stories in AGRISNET.

Sd/-M.Rajendran
Director of Agriculture

//By order//

DEPARTMENT OF AGRICULTURE

Sub: NFSM – Coarse cereals 2014-15 – Demonstration by NGOs in remote village – Instructions to be followed – Regarding.

Ref: This office Lr.No. P&M2/35728/2014, dated 07.08.2014.

In continuation of the above reference the Joint Directors of Agriculture are requested to conduct the meeting with the NGO allotted in your district, and finalize the following details.

1. The demonstration cost is Rs. 5500/- demonstration out of which Rs. 5000/- for conducting demonstration in one ha under millet crops and Rs. 500/- as institutional charges i.e 10% cost of demonstration for NGOs who are organizing the demonstration in the remote villages. Necessary instructions may be communicated to the NGOs in this regard.
2. The crops (coarse cereals) for organizing demonstrations as per target may be finalized during the meeting with NGOs and the minutes may be communicated to this office.
3. Demonstration should be organized in cluster (10 ha / cluster).
4. Monthly progress report under conducting demonstration in remote villages by the NGOs may be obtained from them and be included in the monthly progress report under NFSM – coarse cereals 2014-15. The receipt of the letter may be acknowledged.

DEPARTMENT OF AGRICULTURE

The action plan for NFSM – Coarse cereals 2014-15 has been revised to Rs. 858.26 lakhs, including the component viz., conducting demonstration under coarse cereals in remote areas through NGOs in the district.

The area to be covered under the component “Conducting demonstrations in the remote areas by NGOs is given below based on the discussion held on 20.06.2014 vide reference 1st cited and approved by GOI vide reference 2nd cited above. The area and number of demonstrations to be organized by the NGOs is detailed below.

Agriculture - NFSM – Coarse cereals 2014-15 – Conduct of demonstrations in remote areas through NGOs – Revised Financial and Physical target

Conducting demonstrations (10 ha cluster) on coarse cereals under NFSM – Coarse cereals 2014

Sl.No.	Name of the NGOs	Districts allotted	Area allotted (ha)	Cluster demonstration to be organized Nos.,	Total
1.	M/s. Dhan foundation, Madurai	Salem	200	20	46
		Tiruppur	50	5	
		Perambalur	210	21	
2.	M/s. CENDECT, Theni	Theni	150	15	50
		Dindigul	200	20	
		Coimbatore	150	15	
3.	M/s.Weeds, Sattankulam, Thoothukudi	Thoothukudi	200	20	35
		Trichy	150	15	
4.	M/s. Jeevan, Krishnagiri	Krishnagiri	200	20	20
5.	M/s.BJEDRS,Dharmapuri	Dharmapuri	200	20	20

	Total		1710	171	171

Total finance allotted : Rs. 94.050 lakhs

Total area : 1710 ha

No., of demonstration : 171 Nos.,

Split up for the demonstration of millets like Sorghum, Cumbu, Ragi, Samai, Varagu and Thenai is details below.

S.No.	Component details	Amount (Rs.)
1	Seed and seed treatment chemical (HYV)	750.00
2	Liquid Bio-fertilizer application (Azosparillum – 500ml and Phosphobactara – 500ml)	300.00
3	Micro – nutrient application @ 12.54 kg / ha	700.00
4	Weedicide application (Fiuchloralin / pendimethalin @ 600 gm / ha	200.00
5	Demonstration on with Bio pesticide, light trap, phenomone trap with lure.	750.00
6	Line sowing with power drawn seed drill	1000.00
7	Pesticide application Thiomethoxam @ 100 ml / ha	150.00
8	Inter cropping with pulses @ 5 kg / ha	400.00
9	Field day	250.00
10	Distribution of publicity material	250.00
11	Visit of scientists	300.00
	Total (Limited Rs.5000 / demonstration)	5050.00

Note: Sl.No. 9,10,11 is compulsory for each demonstration.

The Joint Directors of Agriculture are requested to convene a meeting with the concern NGOs and guide them in all technical aspects for conducting the demonstration. The demonstrations may be visited and monitored by the officers assigned by the Joint Directors of Agriculture. The NGOs should be instructed to keep necessary registers for conducting demonstrations. Joint Directors of Agriculture are responsible for collecting the data and information about the place of conduct of demonstration and performance from the concern NGOs. Field day must be conducted inviting scientists of the districts. The performance of the NGOs in implementing this component be documented. The monthly report and success stories may be informed to this office then and there.

Joint Directors of Agriculture are requested to bestow their personal attention in implementing the component through NGOs in remote areas of the districts.

The physical and financial target is communicated vide annexure-1 for implementation of the schemes. The physical and financial target for conduct of demonstrations in the remote areas under NFSM – coarse cereals 2014-15 is finished below.

(Rs. in lakhs)

Sl.No.	Districts	Target	
		Phy. (ha)	Fin. (Rs. in lakhs)
1.	Salem	200	11.00
2.	Tiruppur	50	2.750
3.	Perambalur	210	11.550
4.	Theni	150	8.250
5.	Dharmapuri	200	11.000
6.	Dindigul	200	11.000
7.	Coimbatore	150	8.250
8.	Thoothukudi	200	11.000
9.	Trichy	150	8.250
10.	Krishnagiri	200	11.000

	Total	1710	94.050
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Encl: Physical and Financial target.

Sd/- M.Rajendran
Director of Agriculture

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- It should not be on an isolated field.

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a) Number of farmers

b) Name of Village

c) Name of Variety/ hybrid

d) Type of demonstration

e) Fertilizers applied

f) Bio-fertilizers applied

g) Micronutrient applied

h) Date of Sowing/Transplanting

i) Seed Rate and Spacing

j) Any other critical input used

k) Mobile number of District Consultant/ Technical Assistant

➤ xiii. State should include more than one improved variety/hybrid in one cluster demonstration.

➤ xiv. **Field day:**

- A field day should be organized during reproductive phase of the crop preferably at grain filling stage.
- The participation of scientists from SAUs/KVKs should be ensured for critical observations and solutions of problems.
- Some relevant extension literature like leaflets, pamphlets etc should also be made available to the participating farmers.

➤ xv. **Reporting of the Results:**

- The results of the demonstrations should be compiled at block, district and the results of the demonstrations should be compiled in the form of document.

- The district should analyze the contribution of various interventions undertaken under cluster demonstrations and up-scaling of particular intervention in succeeding years.
- The district report should reach this office before 5th of every month.

11)Distribution of hybrid / certified seed

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- Assist the district in concurrent evaluation based on case studies in identified districts and document and disseminate the success stories.
- Undertake publicity/ information campaign to create awareness about the Mission activities.

Basic Qualification, Experience And Honorarium Of Advisors/ Consultants/ Technical Assistants

A. District level

i) Consultants:

1) Basic degree in Agriculture with Masters Degree in Agronomy/Agri. Extension/Soil Science/Plant Protection/Crop Improvement having at least 10 years of field experience in crop production/ Extension.

2) The person should have the ability of team leadership & motivation.

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Local Initiatives

To support important location specific interventions, which not covered under the normal activities of the Mission but can help in boosting the production of coarse cereals

a) Digging of farm points (5X5X1.5 MTs) and installation of portable mobile sprinkler.

Total 232 Nos Rs. 35.96 lakhs

Other Instructions

1. A District Level Monitoring Committee headed by the District Collector and comprising of officials as members will monitor the implementation of the scheme

- | | |
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| 1. Joint Director of Agriculture | Convenor/Member |
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2. Adequate publicity should be given about the scheme in News papers, AIR, leaflets, pamphlets, etc. and willingness should be invited from the farmers on plain paper.

3. The name of the farmers expressing willingness to avail benefit under the scheme shall be entered in a priority register, maintained in the AEC (Format in Annexure-I).

4. The Assistant Agriculture Officer will select the farmers from the priority register based on the seniority and will obtain application in Annexure-II from them along with the following documents.
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9. The input should be distributed immediately on receipt of application.
10. In case of back ended subsidy it should be disbursed within 60 days of sowing (Annexure III).
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12. **Liquid Bio Fertilizer & MN Mixture** – Procure from Departmental Production Units
13. **Weedicide, fungicide & Bio Pesticide** – Adopt approved rate and Firms communicated through PP Section of this office.
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16. Proper billing of inputs should be done in the Agricultural Extension Centre and record should be maintained for the transaction.
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19. The block Assistant Director of Agriculture should verify a minimum of 20% of the plots, District Deputy Director of Agriculture (GOI) and DDA(SS) each should inspect 5% of the plots and the Joint Director of Agriculture should inspect at least 2% of the demonstration plots.
20. Documentation such as photos taken before and after demonstration.
21. An information board displaying salient details such as name of the scheme, name of the beneficiary, year, subsidy amount etc. should be displayed in demonstration plots
22. A Register of technology demonstration should be maintained with the farmer's photo affixed along with the detail of inputs distributed (format in Annexure IV). This register should be maintained at Block level and a separate register should be maintain for each year.
23. After the completion of the work the AAO should make necessary entries in AGRISNET for each beneficiary. Documentation should be done by uploading the success stories in AGRISNET.

Sd/-M.Rajendran
Director of Agriculture

//By order//

Agricultural officer (P&M)

Annexure 1

I.	Demonstration on Hybrid Maize	:	
a)	Maize	:	
1.	Total area (Demonstration) to be covered	:	6000 Ha
2.	Seeds	:	Hybrid seeds like COH 1,2,3,CO(HM) 4,
3.	Approved Packages @Rs 5000/Ha	:	
a)	Seed Treatment (Metalaxyl) @ 6 gm/kg of seed)	:	Rs. 150.00
b)	Liquid Bio fertilizer application (Azospirillum 500 ml and Phosphobacteria 500 ml)	:	Rs. 300.00
c)	Zinc sulphate application @ 25 kg/ha	:	Rs. 850.00
d)	Weedicide application atrazine @ 2 Kg/ha	:	Rs. 650.00
e)	Pesticide application @ Thiomethoxam	:	Rs. 500.00
f)	Demonstration on IPM with Bio pesticide, light trap, pheromone trap	:	Rs. 750.00
g)	Ridges and furrow planting (60X25 cm) by machineries	:	Rs. 1000.00
h)	Inter cropping with Pulses @ 5 Kg/ha	:	Rs. 400.00
i)	Field day	:	Rs. 250.00
j)	Distribution of publicity material	:	Rs. 250.00
k)	visit of scientist	:	Rs. 300.00
	Total	:	Rs. 5400.00
	(limited to Rs. 5000 / ha)		
II.	Demonstration on other millets (Sorghum,Cumbu,Ragi,Samai,Varagu and Thenai)		
1.	Total area (Demonstration) to be covered	:	3990 ha
a)	Sorghum	:	1000ha
b)	Ragi	:	1000 ha
c)	Cumbu	:	1000 ha
d)	Minor Millets	:	490 ha
	Approved Packages @Rs 5000/Ha		
a)	Seed(HYV & hybrids) and seed treatment chemical	:	Rs. 750.00
b)	Liquid Bio fertilizer application (Azospirillum 500 ml and Phosphobacteria 500 ml)	:	Rs. 300.00
c)	Micronutrient application @ 12.5 ml	:	Rs. 700.00
d)	Weedicide application @ fluchloralin / pendimethalin @ 600 gms/ha	:	Rs. 200.00
e)	Pesticide application Thionethream	:	Rs. 500.00
f)	Demonstration on IPM with Bio pesticide, light trap, Pheromone trap with	:	Rs. 750.00
g)	Like sowing with power drawn seed dill	:	Rs. 1000.00
h)	Inter cropping with Pulses @ 5 Kg/ha	:	Rs. 400.00
i)	Field day	:	Rs. 250.00

j)	Distribution publicity material	:	Rs. 250.00
k)	Visit by scientists	:	Rs. 300.00
	Total	:	Rs. 5400.00
	Limited to Rs. 5000/ha		
	10 years old varieties for Sorghum, Cumbu, Ragi and other Millets recommended are:		
	Sorghum	-	Co 30 and K 11
	Cumbu	-	Co(Cu)9, CoCH9
	Ragi	-	PY (Ra)2, Co (Ra)14
	Samai	-	Co (Samai)4
	Thenai	-	Co (Te)
	Varagu	-	Co 3,APK 1
III	Cropping system based demonstration		
	Total area (Demonstration) to be covered	:	4000 ha
	Approved Packages @Rs 5000/Ha		
	Maize	:	
a)	Seed treatment with Metalaxyl @ 6 gms / Kg of seeds	:	Rs. 150.00
b)	Liquid Bio fertilizer application (Asospirillim 500 ml and Phosphobaceteria @ 500 ml)	:	Rs. 300.00
c)	Millet booster – Maize maximum @ 15 Kg / ha	:	Rs. 3000.00
	PULSES		
a)	Cost of seeds @ 20 Kg / ha	:	Rs. 1200.00
b)	Application of pulses wonder @ 5 Kg / ha	:	Rs. 600.00
c)	Weedicide application @ 300 ml of lamzethpyr	:	Rs. 860.00
	Total	:	Rs. 6110.00
	Limited to Rs. 5000 / ha		

Note: The cost of demonstration is inclusive of organizing of field day, distribution of publicity material and visit of scientists @ Rs.250, Rs. 250,and Rs. 300 respectively.

The cropping system based demonstration is not applicable for the area where NFSM – Pulses is proposed and implemented.