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## ABBREVIATIONS

ATMA	Agricultural Technology Management Agency
APR	Annual Progress Report
AISLUS	All India Soil and Land Use Survey
CRRl	Central Rice Research Institute
CSC	Central Seeds Committee
CIAE	Central Institute of Agricultural Engineering
CYMMIT	International Maize and Wheat Improvement Center
DAC	Department of Agriculture and Cooperation
DFSMEC	District Food Security Mission Executive Committee
DRR	Directorate of Rice Research
DWR	Directorate of Wheat Research
GC	General Council
HYV	High Yielding Variety
ICAR	Indian Council of Agricultural Research
ICDP	Integrated Cereal Development Programme
ICRISAT	International Crops Research Institute for the Semi – Arid Tropics
IFFCO	Indian Farmers Fertilizers Cooperative Limited
IISS	Indian Institute of Soil Science
IIPR	Indian Institute of Pulses Research
INM	Integrated Nutrient Management
ISOPOM	Integrated Scheme for Oilseeds, Pulses, Oil palm and Maize
IPM	Integrated Pest Management
KRIBHCO	Krishak Bharati Cooperative Limited
KVK	Krishi Vigyan Kendra
NAFED	National Agricultural Cooperative Marketing Federation of India Limited
NAIP	National Agricultural Innovation Project
NALMOT	National Level Monitoring Team
NDC	National Development Council
NSC	National Seeds Corporation
NFSM	National Food Security Mission
NFSMEC	National Food Security Mission Executive Committee
NGO	Non-Government Organizations
QPR	Quarterly Progress Reports
PMT	Project Management Team
SAMETI	State Agricultural Management and Extension Training Institute
SAU	State Agricultural University
SC	Schedule Caste
SC	Seed Committee
SCP	Special Component Plan
SRI	System of Rice Intensification
SRR	Seed Replacement Rate
SFCI	State Farms Corporation of India
SFSMEC	State Food Security Mission Executive Committee
SSC	State Seed Corporation
ST	Schedule Tribe
TSP	Tribal Sub-Plan

# National Food Security Mission

## Operational Guidelines



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### 1. Introduction

1.1 The National Development Council (NDC) in its 53<sup>rd</sup> meeting held on 29<sup>th</sup> May, 2007 adopted a resolution to launch a Food Security Mission comprising rice, wheat and pulses to increase the production of rice by 10 million tons, wheat by 8 million tons and pulses by 2 million tons by the end of the Eleventh Plan (2011-12). Accordingly, a Centrally Sponsored Scheme, '**National Food Security Mission**' (NFSM), has been launched from 2007-08 to operationalise the above mentioned resolution.

1.2 The National Food Security Mission will have three components (i) National Food Security Mission - Rice (NFSM-Rice); (ii) National Food Security Mission - Wheat (NFSM-Wheat); and (iii) National Food Security Mission - Pulses (NFSM-Pulses).

### 2. Mission Objectives

2.1 Increasing production of rice, wheat and pulses through area expansion and productivity enhancement in a sustainable manner in the identified districts of the country;

2.2 Restoring soil fertility and productivity at the individual farm level;

2.3 Creation of employment opportunities; and

2.4 Enhancing farm level economy (i.e. farm profits) to restore confidence amongst the farmers.

### 3. Strategy

3.1 To achieve the above objectives, the

Mission would adopt following strategies:

- i. Implementation in a mission mode approach through active engagement of all the stakeholders at various levels.
- ii. Promotion and extension of improved technologies i.e., seed, Integrated Nutrient Management (INM) including micronutrients, soil amendments, Integrated Pest Management (IPM) and resource conservation technologies along with capacity building of the farmers.
- iii. Flow of fund would be closely monitored to ensure that interventions reach the target beneficiaries on time.
- iv. Various interventions proposed would be integrated with the district plan and targets for each identified district would be fixed.
- v. Constant monitoring and concurrent evaluation for assessing the impact of the interventions for a result oriented approach by the implementing agencies.

### 4. Mission Structure

#### 4A. National Level

4.1 A General Council (GC) will be constituted under the chairmanship of the Union Agriculture Minister. A Mission Director will be appointed at the national level. The composition of the GC will be as under:

- |      |                         |          |
|------|-------------------------|----------|
| (i)  | Minister of Agriculture | Chairman |
| (ii) | Secretary (A&C)         | Member   |



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(iii) Secretary (DARE) & DG (ICAR)	Member
(iv) Secretary, Ministry of Finance	Member
(v) Adviser (Agriculture), Planning Commission	Member
(vi) Agriculture Commissioner	Member
(vii) Mission Director	Member Secretary

4.2 The GC will be the policy making body providing suitable directives and guidance to the Mission and reviewing the overall progress and development of the scheme. The GC will be empowered to lay down and amend the operational guidelines, decide need based reallocation of resources across states and districts and approve projects as per the requirements. However, the subsidy norms as approved by the Government shall in no circumstances be exceeded for any of the Mission components. **The GC will meet at least twice a year.**

4.3 A National Food Security Mission Executive Committee (NFSMEC) will be constituted under the Chairmanship of Secretary, Department of Agriculture & Cooperation to oversee the activities of the Mission and to approve the State Action Plans. The NFSMEC will comprise the following:

(i) Secretary (A&C)	Chairman
(ii) Secretary (DARE) & DG (ICAR)	Member
(iii) Secretary, MOWR	Member
(iv) Secretary, Department of Fertilizers	Member
(v) Adviser (Agriculture), Planning Commission	Member
(vi) Agriculture Commissioner	Member

(vii) Five (5) experts on crop production	Member
(viii) Mission Director	Member Secretary

4.4 Function of the NFSMEC will be to oversee the activities of the Mission and to approve the individual State Action Plans. **The Chairman may nominate more members to the committee as per requirement. The NFSMEC will meet once in every quarter.**

4.5 A National Food Security Mission Cell will be created in the Crops Division of DAC by deploying officers/staff from within the department. There would be three Additional Commissioners one each for rice, wheat and pulses and three Deputy Commissioners one each for the respective crops. Two Assistant Commissioners, Three Assistant Directors, Three STAs and supporting staff will also be placed in the Cell.

#### 4B. State Level

4.6 A State Food Security Mission Executive Committee (SFSMEC) will be constituted by the State Governments under the chairmanship of Chief Secretary to oversee the activities of the Mission in the State. Secretary (Agriculture), Secretary (Irrigation), Secretary (Power) and representatives from other Departments concerned, State Agricultural Universities (SAUs), ICAR Institutes, Lead banks, etc. will be the members of the SFSMEC. A State Mission Director will be appointed in the scale of Director (from within the State Government or outside). The constitution of the State Food Security Mission Executive Committee (SFSMEC) will be as follows:

(i) Chief Secretary of the State	Chairman
(ii) Secretary (Agriculture)	Member



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(iii) Secretary (Irrigation)	Member
(iv) Secretary (Power)	Member
(v) Vice Chancellor(s) of SAUs	Member
(vi) Director/Project Director of ICAR Institutes	Member
(vii) Representatives of Lead banks	Member
(viii) State Mission Director	Member Secretary

4.7 The State Governments will have to nominate or create a suitable autonomous agency registered under the Societies Registration Act for implementing the Mission at the State and district levels. The agency thus nominated will implement the Mission's programme in the State. Such an agency could be the State Agricultural Management & Extension Training Institute (SAMETI) at the State Level and the Agricultural Technology Management Agency (ATMA) at the district level.

4.8 Separate accounts for the scheme would be maintained by the State and the District level Agencies as per the Account code prescribed by the NFSMEC. The annual accounts would be duly audited by a chartered accountant every year.

4.9 The State Level Agency will have the following responsibilities:

- Prepare perspective and State Action Plan in consonance with the Mission's goals and objectives and in close coordination with SAUs and ICAR Institutes.
- Organize / conduct baseline survey and feasibility studies in the area of operation (district, sub-district or a group of districts) to determine the

status of crop production, its potential and demand. Similar studies would also be undertaken for other components of the programmes.

- Implementation of the Mission's programmes in the State through Farmers Societies, Non-Governmental Organizations (NGOs), Growers' associations, Self-Help Groups, State institutions and other similar entities.
- Organize workshops, seminars and training programmes for farmers and other stakeholders at the State level with the help of State Agricultural Universities and ICAR Institutes in the State.
- Funds would be directly received by it from the National Food Security Mission to execute the approved Action Plan for the State.

#### 4C. District Level

4.10 At the district level, the scheme will be implemented through the ATMA. The State Level Agency will provide the required funds to the District Level Agency for execution of the programme at the district / block level.

4.11 A District Food Security Mission Executive Committee (DFSMEC) will be constituted for project formulation, implementation and monitoring of the scheme components through the Agriculture Department. The District Collector or Chief Executive Officer of the Zilla Parishad (as per existing norms of the State Government) will be the Chairman of the DFSMEC.

4.12 DFSMEC will have representatives from the line Departments concerned including SAUs, Krishi Vigyan Kendras (KVKs), ATMA, progressive farmers, self help groups of farmers





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and reputed NGOs as its members. The Deputy Director (Agriculture) / District Agriculture Officer will be the Member Secretary of the DFSMEC. The constitution of the DFSMEC will be as follows:

- |  |                     |
|--|---------------------|
| (i) District Collector/CEO<br>of Zilla Parishad                          | Chairman            |
| (ii) Representatives from<br>line Departments                            | Member              |
| (iii) Nominated progressive<br>farmers                                   | Member              |
| (iv) Representatives from self<br>help groups of farmers                 | Member              |
| (v) Representatives from<br>reputed NGOs                                 | Member              |
| (vi) Representative of KVK /<br>SAU in the District                      | Member              |
| (vii) Project Director ATMA  | Member              |
| (viii) Deputy Director<br>(Agriculture)/District<br>Agricultural Officer | Member<br>Secretary |

4.13 Chairman, DFSMEC may nominate additional officials/persons of importance as felt necessary by him.

#### 4D. Project Management Team

4.14 A Project Management Team (PMT) will be constituted at the National level under the leadership of Mission Director. Six Consultants in identified fields of expertise and eight Senior Technical Assistants would be hired on contractual basis.

4.15 A PMT will also be constituted at the State and the district level under the leadership of a Project Manager drawn from the State Government. At the State level, the Project Manager will be of the level of a Director. At the district level, the project manager will be

of the level of a Deputy Director (Agriculture) or the District Agriculture Officer.

4.16 The PMTs will be assisted by technical experts to be appointed on contractual basis for technology transfer and implementation of the Mission. The PMTs will have the responsibility to ensure collaboration among various line departments in the Centre / State /District to achieve the targets. The appointment of technical manpower will be made on contract basis with the terms of reference laid down for the purpose by NFSMEC. The PMT will provide the technical services/advice. Honorarium to Project Management Team members will be fixed as per the extant financial norms. Essential and desirable qualifications for the candidates to be appointed for contractual services are given at **Annexure-I**.

4.17 National/state/district PMT can engage need based experts with the permission of the General Council from fields like Publicity and Communications, Financial Management, Information Management etc. However, in no case the number of Technical Consultants will be less than four for the expertise in agriculture as per the qualifications given in the Annexure-I.

4.18 The pay of Senior Technical Assistants will be regulated from time to time according to Research Associates in ICAR / NAIP Projects.

4.19 The Project Management Team will have the following responsibilities:

- Guide the States/districts in organizational and technical matters.
- Help in the implementation and monitoring of the various interventions of the NFSM.
- Assist the States/districts in capacity building programmes and record



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the data on crop yield through crop cutting experiment samples.

- (d) Assist the district and state agencies in concurrent evaluation based on case studies in identified districts and document and disseminate the success stories.
- (e) Undertake publicity/information campaign to promote the Mission objectives.

4.20 ICAR institutes/ SAUs, their research stations and KVKs functioning in the district will provide technical support in formulation of projects, its implementation and monitoring. The technical staff will be sourced from these organizations for imparting training to the farmers and extension personnel involved in the implementation and monitoring of the NFSM.

## 5. Role of Panchayati Raj Institutions

5.1 Panchayati Raj Institutions will be actively involved in following activities:

- (i) Selection of beneficiary and identification of priority areas for the implementation of Mission interventions; and
- (ii) Implementation of Local Initiatives in the identified districts.

## 6. Area of Operation of Food Security Mission

6.1 NFSM - Rice, NFSM - Wheat and NFSM - Pulses will be implemented in 136, 141 and 171 identified districts of different States, respectively. List of the identified districts is given at **Annexure-II(a) to II(c)**.

6.2 The GC, based on the latest available

data, is empowered to include or exclude the districts for implementation of various components of the Mission.

## 7. Mechanism of Fund Flow

7.1 Funds for implementing the Mission's programme will be directly released to the State Level Agency with the approval of the NFSMEC. The State Level Agency would make funds available to the District Level Agency in accordance with approved programme of the district. Funds would be released in installments based on the progress reports and submission of utilization certificates.

7.2 The funds for the implementation of the activities of the components will be released by the State/District Level Agency to the nodal departments which will procure the required inputs for the district. The nodal departments will submit the utilization certificate to the State/District Level Agency which, will be compiled and a consolidated utilization certificate, duly authenticated by the DFSMEC and SFSMEC will be submitted to the Ministry of Agriculture, Govt. of India for further releases.

7.3 As far as possible '**electronic banking**' will be used for transfer of funds to the State Level Agency and to the districts. The State Level Agency will have to maintain a separate budget and prescribed accounting system for the Mission, both at the State and district level.

## 8. Monitoring

8.1 The National Food Security Mission will have a strong mechanism of monitoring and evaluation with the involvement of all the implementing agencies and the line departments. At the district level, monitoring will be undertaken by DFSMEC supported by the Project Management Team.



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8.2 Close monitoring of physical and financial targets of various program interventions would be done by the monitoring teams. Format for monitoring these interventions would be prescribed by NFSMEC.

8.3 The State Department of Economics and Statistics will be involved in adopting the prescribed format for data collection pertaining to different parameters of the Mission for monitoring to suit the local requirements.

8.4 At the State level, the activities of the Mission will be monitored by a Committee to be constituted under the Chairmanship of the State Mission Director with members from the line departments, SAUs, lead banks, ICAR institutes and the national crop development directorates nodal for the State.

8.5 At the National level, the activities of the Mission will be monitored by a Committee to be constituted under the Chairmanship of the Mission Director with members from Department of Agriculture & Cooperation, Indian Council of Agricultural Research, SAUs, Directorate of Rice, Wheat and Pulses Development, research institutions concerned and officials of State Departments concerned.

8.6 Directorate of Rice/Wheat/ Pulses Development will be the convener of the Committees for the identified states, i.e., the Directorate of Wheat Development, Ghaziabad for the northern States; the Directorate of Rice Development, Patna for the Eastern States; and the Directorate of Pulses Development, Bhopal for the Central and the Southern States.

## 9. Reporting System

9.1 The State Department of Agriculture will ensure submission of Quarterly Progress Reports (QPR) which should reach by the 10th of every third month. Similarly, the

detailed Annual Progress Report (APR) should be sent to the Department of Agriculture & Cooperation, Ministry of Agriculture within three months after the end of the year. One copy of the reports of NFSM-Rice should be sent to the Directorate for Rice Development, Patna, of NFSM-Wheat to the Directorate of Wheat Development, Ghaziabad and of NFSM-Pulses to the Directorate of Pulse Development, Bhopal with a copy to the National Mission Director. The formats for reporting would be as prescribed by the NFSMEC.

## 10. Evaluation

10.1 A baseline survey will be conducted by the State Department of Economics & Statistics to know the resource endowments of the farmers and the level of productivity.

10.2 Concurrent Evaluation will be done every year. The State Statistical Department would be responsible for conducting this evaluation to assess the performance of the Mission commensurate with its objectives.

10.3 In the 3rd year of implementation of the NFSM, a mid-term evaluation at the National Level will be undertaken through an independent agency/organization on its performance and shortcomings so as to take the remedial measures / make required changes in the scheme and its method of implementation.

10.4 An Impact Evaluation Study at the National Level will also be undertaken through an independent agency after the third year of implementation to assess the impact of the scheme in increasing the productivity of rice, wheat and pulses, crop diversification, and enhancement of farmers' income.

10.5 Information communication technology will be used for monitoring and





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evaluation of the Mission. Specialized tool/format/ software for the monitoring and evaluation of the Mission's activities would be developed.

## 11. Criteria for Identification of Areas and Beneficiaries

11.1 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.

11.2 At least **33% allocation of the fund is to be made for small, marginal and women farmers**. The allocation to SC/ST farmers will be made proportionate to their population in the district.

11.3 All the farmers are entitled to avail the assistance for various components of the Mission limited to 5 hectares in a season.

11.4 All India Soil and Land Use Survey (AISLUS) will be the nodal agency for identification of priority areas for the application of micronutrients, gypsum and lime.

11.5 Various interventions in the Mission are location specific. The **System of Rice Intensification (SRI)** will be adopted in the districts which are considered suitable for adoption of technology as decided by the State Agriculture Department on the basis of assured availability of water during various stages of crop production.

11.6 A district level Seed Committee will be constituted by the Chairman of DFSMEC which will be tasked to verify the list of beneficiaries for seeds, its indent and the

ultimate distribution to end users. In case the subsidy on seed is administered at source, the list of beneficiaries may be approved post-facto subject to random verification.

11.7 Zonal research stations of SAUs, KVKs, ATMA, reputed NGOs and other line departments will be involved in planning and execution of demonstration, training of farmers and their evaluation. The Project Management Team at the district level will help in developing synergy among various line departments to get the desired output.

## 12. Procedure for Approval and Implementation

12.1 The Department of Agriculture & Cooperation, Government of India would communicate the tentative annual outlay to each State, which in turn will indicate component-wise district-wise allocation. The agencies at the district level will prepare the annual action plan keeping in view their priority and potential and submit the plan to the State Level Agency. The States concerned will be required to prepare a State Action Plan based on the District Action Plans for the XI Plan. States could engage the Project Management Team or alternatively, outsource to technical consultants for preparing the Annual Action Plans and State Food Security Mission Document. The State Level Agency will get the State Action Plan vetted by the State Food Security Mission Executive Committee (SFSMEC) and furnish the same to Ministry of Agriculture for consideration by the NFSMEC.

12.2 **SFSMEC is empowered to make inter-componental changes based on the local needs to the extent of 20 % of the total allocation** for NFSM-Rice, NFSM-Wheat and NFSM-Pulses.



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### 13. Position of Ongoing Schemes

13.1 The Centrally Sponsored Scheme on Integrated Cereal Development Programme (ICDP Rice/wheat) will be discontinued in the identified districts once the NFSM-Rice and NFSM-Wheat become operational there.

13.2 The National Food Security Mission-Pulses (NFSM-Pulses) will be implemented in existing as well as in additional area of 171 identified districts in 14 States of the country. The Pulse component of ISOPOM will cease to operate in these 171 identified districts except for the components which are not covered under NFSM-Pulses.

### 14. Mission Interventions

Various interventions proposed under the three components (Rice, wheat and Pulses) of NFSM are as follows:

#### 14.1 Demonstration

- i. Demonstrations of improved package of practices of rice and wheat, System of Rice Intensification (SRI) and hybrid rice will be conducted at farmers' fields to create awareness about the improved practices (improved/hybrid seed, fertilizer management and other practices).
- ii. One demonstration on 0.4 ha for every 100 ha area of rice and 50 ha area of wheat will be conducted during the XI plan period. Number of demonstrations each year will be approximately 1/5th of the number for the XIth five year plan. Only one demonstration will be allocated to a farmer.
- iii. 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.

- iv. These demonstrations will be collaboratively conducted by the State Department of Agriculture, SAUs, ICAR institutes and KVKs and reputed NGOs.
- v. **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 in a participatory manner by holding meetings in the village by explaining the objectives of the demonstrations and role and responsibilities including expectations from the participating farmer.
- 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, prevailing 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:** This is very important step in planning a demonstration. The improved practices to be demonstrated should be identified in consultation with SAU through their regional research stations/KVKs located in the area. However, the most critical input should be given



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top priority such as in case of acidic soil, correction of soil acidity through liming should be done while conducting a demonstration on improved package. The variety to be included in the package should not be older than five years.

- ix. **Development of package of inputs to be distributed:** Once the technologies to be demonstrated are identified, a package should be finalized as to what inputs are to be provided for the conduct of these demonstrations in the form of a demonstration kit. Similarly the contribution of inputs to be provided by the beneficiary farmers (If required) may also be decided
- x. **Distribution of demonstration kits and training of participating farmers:** A training programme should be organised 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 this training programme. The demonstrations should be conducted by extension functionaries of the state department of agriculture under the supervision of district consultants.
- xi. District Consultant assisted by 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.

- xii. **Display board:** A display board should be put on the demonstration plot. In addition to other information, the display board should contain information about the critical input or farm operation that is required to be demonstrated.

- Name of the Farmer
- Name of Village
- Name of Variety
- Fertilizer applied
- Micronutrient applied
- Date of Sowing/Transplanting
- Seed Rate and Spacing
- Any other critical input used

- xiii. **Field day:** A field day is to be organised during reproductive phase of the crop preferably at grain filling stage. The participation of scientists from SAUs/KVKs should be ensured and some relevant extension literature should also be made available to the participating farmers.

- xiv. **Reporting of the Results:** The results of the demonstration should be compiled at block, district and state level. At state level the results of the demonstrations should be compiled in the form of a booklet.

#### 14.1.1 Improved Package of Practices

##### Rice

- i. Assistance of Rs.2,500/- per demonstration will be provided for meeting the expenditure on seeds, fertilizers, plant protection chemicals, herbicides and other miscellaneous expenses.



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- ii. The item-wise expenditure on critical inputs and other expenses per demonstration are as follows:

S. No.	Item	Amount (Rs.)
1.	Cost of critical inputs (seeds, fertilizers/manures, PP chemicals and herbicides)	1825/-
2.	Organizing Farmers day	200/-
3.	Distribution of publicity material, placards, display board, posters, pamphlets etc.	125/-
4.	Visit of scientists/officers of GOI/DRR/PMTs/state officials etc. excluding TA/DA of any kind but for hiring taxi, POL etc.	250/-
5.	Contingency, including typing manuals/reports etc.	100/-
	<b>TOTAL</b>	<b>2500/-</b>

#### Wheat

- i. Assistance of Rs. 2000/- per demonstration will be provided to meet the expenditure of seeds, fertilizers, plant protection chemicals and other miscellaneous expenses.
- ii. The item wise details of the assistance are given as under:

S. No.	Item	Amount (Rs.)
1.	Cost of critical inputs (seeds, fertilizers/manures, PP chemicals)	1325/-
2.	Organizing Farmers day	200/-

3.	Distribution of publicity material, placards, display board, posters, pamphlets etc.	125/-
4.	Visit of scientists/officers of GOI/PMTs/state officials etc. excluding TA/DA of any kind but for hiring taxi, POL etc.	250/-
5.	Contingency, including typing manuals/reports etc.	100/-
	<b>TOTAL</b>	<b>2000/-</b>

#### 14.1.2 System of Rice Intensification (SRI)

- i. SRI demonstration will be conducted under upland conditions on the fields of progressive farmers having assured irrigation facility and provision of drainage.
- ii. Assistance of Rs.3,000/- per demonstration of SRI will be provided to the implementing agencies. The component wise details are given below :

Sl. No.	Components	Amount (Rs.)
1	Cost of critical inputs (seeds, fertilizers/manures, PP chemicals and herbicides)	2325
2	Organizing Farmers' day	200
3	Distribution of publicity material, placards, display board, posters, pamphlets etc.	125
4	Visit of scientists/officers of GOI/PMTs/state officials etc. excluding TA/DA of any kind but for hiring taxi, POL etc.	250
5.	Contingencies/typing of results/minutes etc.	100
	<b>Total</b>	<b>3000</b>



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### 14.1.3 Hybrid Rice Technology

- (i) The demonstration on hybrid rice will be conducted on farmers' field having assured irrigation facility.
- (ii) The assistance of Rs.3,000/- per demonstration on hybrid rice will be provided to the implementing agencies. The component wise details are given below:

Sl. No.	Components	Amount (Rs.)
1	Cost of critical inputs (seeds, fertilizers/manures, PP chemicals and herbicides)	2325
2	Organizing Farmers' day	200
3	Distribution of publicity material and display board	125
4	Visit of scientists/officers of GOI/PMTs/state officials etc. excluding TA/DA of any kind but for hiring taxi, POL etc.	250
5.	Contingencies/typing of results/minutes etc.	100
	<b>Total</b>	<b>3000</b>

### 14.2 Seed

Seed is one of the most critical inputs for enhancing the productivity of crops. The mission provides financial assistance for production of seed of hybrid rice as well as breeder, foundation and certified seeds of improved varieties of pulses. Similarly a provision has been made for financial assistance for distribution of seeds of Hybrid rice, HYV/ improved varieties of rice, wheat and pulses. In order to popularize recently released and pre- released varieties of rice and wheat, adequate allocation has been made for distribution of seed minikits in rice and wheat.

### 14.2.1 General Plan

- i. The selection of beneficiaries for distribution of seeds and seed minikits will be done in consultation with village Panchayats and the zilla Parishads.
- ii. A Seeds Committee (SC) of NFSM under the chairmanship of the Agriculture Commissioner, Government of India will decide the programme for production and distribution of seeds of Rice, Wheat and Pulses and distribution of seed minikits of rice and wheat in consultation with the ICAR, SAUs and States. The Committee will meet before the commencement of each crop season i.e. in February/March for Kharif and in August/September for Rabi/ Summer season programmes to:
  - (a) Review the requirements of States; seed availability of identified varieties.
  - (b) Review performance of the previous seasons/years seed/ seed minikit distribution programmes.
  - (c) Formulate seed production/ distribution/seed minikit programme for the season.
  - (d) Review availability and production programmes of breeder, foundation and certified seeds of newly released varieties and hybrids.
  - (e) Review the programmes of the States for production of seeds of the varieties/ hybrids found most promising under minikit programme for seed distribution to farmers.





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- (f) Identify the agencies amongst the State Seeds Corporations, KVKs, NGOs, private sector, cooperative and public sector agencies having necessary technological and infrastructure base to widen the seed production programmes.
- iii. The assistance for distribution of Hybrids/HYVs seeds of rice, wheat and Pulses will be given to NSC/ SFCI/SSCs/SAUs and other registered private agencies authorised by the state governments
- iv. The assistance for distribution of Hybrid/ HYVs seeds of rice, wheat and Pulses may be given at source to the identified seed supplying agencies in the districts. This will include both public and private sector agencies.
- v. **Plan for administration of seed subsidy at source:**
  - a. For administration of subsidy at source the seed placement plan of the public and private agencies to be taken into consideration. All the public and private seed agencies interested to sale their seed through subsidized price in the district need to inform in advance to the Deputy Director (Agriculture) about their seed placement plan (variety wise quantity of seed, price and the place at which the seed is available).
  - b. The District Collector with the help of district seed committee may hold a meeting of all the seed agencies which have shown interest in the selling the seed at subsidized cost, and decide their target for sale under NFSM.
- c. The quantity of seeds to be sold by a particular agency in the district at subsidized price to be decided on the basis of trends of sale of agency for last three years. The sale of the seed at subsidized cost should not exceed 33% of the total seed requirement in a district from all sources.
- d. The seed agency will deduct the amount of subsidy from the cost of seed to arrive at the sale price and these details will be indicated on the label printed on the packet of seed along with the name of Mission and all regular details as per Seed Order.
- e. The certification tag and lot number of the seeds sold need to be provided to the District Seed Committee which will invariably have a representative of seed certification agency of the State/ District as its member for verification of quality of the seed.
- vi. At the district level, the distribution of seeds and seed minikits will be monitored by DFSMEC with the help of the Project Management Team.
- vii. A monitoring team will be constituted for supervision and for effective seed production/ distribution comprising members



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from the Department of Agriculture of States, representative from Ministry of Agriculture, SAUs and ICAR Institutes. The consolidated report will be submitted by the Directors, Directorate of Rice/Wheat/Pulses Development to the Ministry of Agriculture.

#### 14.2.2 Hybrid Rice Seed Production

- i. It has been targeted to cover 3 million ha area under hybrid rice by the year 2011-12 for which 4.5 lakh quintals hybrid seed will be required. Hybrid rice seed production is a very complex and risky task. The ultimate realization per unit area in hybrid rice is very low.
- ii. Assistance of Rs 1,000/- per quintal of certified hybrid seeds produced will be provided to seed producing agencies including private seed producing companies **located in both NFSM/ non NFSM districts** for the certified seeds to be used in the NFSM-Rice districts.
- iii. The beneficiary for production subsidy for the certified seeds will be NSC/ SFCI/ SSCs/SAUs and other registered private agencies authorized by the State Governments.
- iv. The incentives for production will be given to the seed producing agencies on the net quantity of hybrid seeds produced. No carry over benefit will be given to the seed producers.
- v. A minimum target as envisaged by SC from time to time will be fixed

for the production of hybrid rice seed. The seed producing agencies will have to produce the prescribed minimum quantity of the hybrid rice seed to avail of the assistance.

- vi. The funds for subsidy on production of hybrid rice seeds will be released to the State Level Agency, which in turn will release it to the seed producing agencies after the approval of the State Food Security Mission Executive Committee (SFSMEC).
- vii. Hybrid Rice Seed producing agencies will place the indent with the concerned SAUs/ICAR institute to get A Line, B Line and Restorer (R) Line under intimation to Seed Division of DAC to produce sufficient quantity as per the target of hybrid seed production.
- viii. The hybrid rice seed producing agencies will submit progress reports in the prescribed format to the SFSMEC, which will forward them to the Directorate of Rice Development after verification in the month of June/July. A final progress report will be submitted latest by January.
- ix. The Directorate of Rice Development, Government of India, Patna will submit these progress reports as well as the assessment reports to the Government of India.

#### 14.2.3 Distribution of hybrid rice seed

- (i) The seed producing agencies (NSC/ SFCI/ SSCs/ SAUs/ private seed producing agencies) authorized by the States will distribute hybrid rice



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seeds to the identified districts of the State.

- (ii) Assistance to the extent of 50% of the cost of the hybrid rice seeds, limited to Rs.2,000/- per quintal, will be made available to farmers at subsidized prices. No assistance will be provided for varieties already de-notified/phased out.
- (iii) The seed distributing agencies will submit their subsidy claim under this component to the State Level Agency.

#### **14.2.4 Varietal replacement of Rice and Wheat**

- (i) To bring the SRR upto 33% in identified districts and to enhance the productivity level, assistance for purchase of certified seeds of high yielding varieties released during the last 10 years will be provided for the distribution of HYVs of rice and wheat @ Rs.500/- per quintal or 50% of the cost, whichever is less.
- (ii) Funds for distribution of seeds will be released by the State/District Level Agency after obtaining the approval of the seed committee constituted in the district.

#### **14.2.5 Seed Minikit Programme of rice and wheat**

- i. Minikits are meant for introduction and popularisation of latest released/pre-released varieties/hybrids among the farmers. The size of minikits will be of 10 Kg each for wheat, 5 kg for HYV of rice and 6 kg for Hybrid rice. One minikit for every

50 ha area of rice and wheat will be distributed. **For hybrids, the target area for seed minikits will be 3.0 million ha. The States will have to identify the priority area in advance for rice hybrids seed minikits distribution to enable the nodal agencies for arranging the distribution of minikits.**

- ii. Only newly released varieties/hybrids not older than 5 years i.e. notified/released/identified during last 5 years will be included under the seed Minikit programme
- iii. Seed Minikits will be supplied by NSC/SFCI/SSCs/SAUs as per the approved programme.
- iv. The seed Minikits will be distributed to the farmers free of cost through District Agriculture Office.
- v. The cost of Minikits will be reimbursed to NSC/SFCI/SSCs/SAUs as per rates fixed by DAC on receipt of bills and acknowledgement of seed minikits receipt by respective district agriculture department. The funds for Seed Minikits will be directly released by Government of India to concerned Agencies after verification by the State Governments.
- vi. District level PMT will monitor the implementation of Minikit programme in the district.
- vii. At the National level, Crop Development Directorates will be the nodal agencies for monitoring the distribution of seed Minikits of rice & wheat.



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#### **14.2.6 Production and Distribution of Breeder Seeds of Pulses**

- i. The breeder seeds of varieties released within 10 years will be produced by ICAR/SAUs system based on the breeder seed plan approved by Seed Committee (SC). IIPR will be the nodal agency for organizing production and supply of breeder seeds
- ii. Financial assistance of Rs.2.0 crores per annum will be earmarked for ICAR/SAUs for production of breeder seeds of pulse crops.
- iii. The seed producing agencies will be required to lift the breeder seeds as per the allocation made by SC on payment basis. The entire cost of breeder seed will be reimbursed by NFSMEC under NFSM-Pulses to the concerned State Governments and seed producing agencies in the public and cooperative sector.

#### **14.2.7 Production of Foundation and Certified Seeds of Pulses**

- i. Foundation seeds will be produced by SFCI/NSC/SSC/SAU, Seed Production Farms of State Governments, NAFED, IFFCO, KRIBHCO, seed producing agencies in the cooperative and the private sector for which a subsidy of Rs.1000/- per quintal of processed seed will be provided.
- ii. The certified seeds produced by the agencies listed at (i) under Seed Village Scheme will also qualify for production subsidy. No assistance will be admissible for carry over

stocks.

- iii. An Assistance of Rs.1,000/- per quintal for production of certified seeds will be admissible to seed producing agencies. The seed producing agencies will be required to pass on Rs.750/- as incentive to the seed grower for every quintal of certified seeds produced to meet the expenses towards registration fee and also to compensate the grower for the losses suffered in rouging and cleaning operations. Balance assistance of Rs. 250/- per quintal of seed produced will be available to the seed producing agency towards handling, cleaning /grading/ processing/ transportation/storage charges etc.
- iv. Less than 10 year old varieties of foundation and certified seeds of various pulse crops will only qualify for production subsidy.
- v. State Seed Corporations/NSC/SFCI/NAFED/KRIBHCO/IFFCO and other seed producing agencies in the cooperative and the private sector will be required to formulate Annual Seed Production Plans for production of foundation and certified pulse seeds. These plans will be submitted to SC well before the beginning of every season for approval. The programmes for certified seed production will be undertaken by these agencies as per the approved plan(s).

#### **14.2.8 Distribution of Certified Seeds of Pulses**

- i. A provision for financial assistance for distribution of certified seeds



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has been made to popularize/ promote/spread the promising/ newly released (<10 years old) pulse varieties at an affordable cost.

- ii. Distribution subsidy will be applicable to certified seeds of all pulses which will be 50% of the cost of the certified seed, or Rs. 1,200/- per quintal, whichever is less and will be given at source
- iii. The agencies supplying certified seeds under this component will have to clearly print on the packets/ kits the details of (i) sale price of the seed (ii) eligible subsidy amount and (iii) net sale price for farmers, in Rs. per quintal.
- iv. The certified seeds of newly developed Improved varieties/ hybrids of pulses developed in the private sector will also qualify for distribution subsidy. Concerned State Departments of Agriculture will procure only certified seeds/hybrids from private agencies and supply to farmers at the subsidized rate.
- v. A farmer can get pulses seed at subsidized rate for not more than five hectare area.

#### **14.2.9 Support for State Seed Certification Agencies for pulse seeds**

- i. Financial assistance will be provided to the State Seeds Certification Agencies for technical and infrastructural up-gradation (including minimum manpower on contractual basis) for a period of four years (2007-08 to 2010-11) in order to enable them to undertake certification of increased quantities

of pulse seeds, which is planned to be doubled in three years and for which the existing certification infrastructure is inadequate.

- ii. An amount of Rs. 25 lakhs will be earmarked for each State Seed Certification Agency per annum for four years (XI Five Year Plan) to facilitate the process of seed certification.
- iii. The State Seed Certification agencies will be required to submit the proposals to SC under this component clearly indicating the details of existing technical manpower and activities proposed to be undertaken along with justification.

#### **14.3 Nutrient management/soil ameliorants**

- i. This component will be implemented by the State Department of Agriculture. The DFSMEC will finalize the list of beneficiaries in consultation with Village/Zilla Panchayats.
- ii. All India Soil and Land Use Survey (AISLUS) will be the nodal agency for identification of the priority areas for application of micro nutrients/lime/gypsum in the identified districts. In the absence of required information with AISLUS, SAUs/ICAR -institutes, the National Bureau of Soil Survey and Land Use Planning(NBSSLUP), Nagpur and its regional centers and the Indian Institute of Soil Science(IISC), Bhopal will also be involved in identification of priority areas.





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- iii. The micronutrients/lime/gypsum will be applied as basal/foliar application based on the recommendations of the SAUs concerned. A farmer will be given assistance for a maximum of 5 ha area for the target crop.

#### **14.3.1 Application of Lime/liming material and micronutrients in Rice**

- i. An assistance @ Rs. 500/- per ha or 50% of the cost of lime/liming material whichever is less, will be given to the farmers for rice. The method and dose of application will be as prescribed by concerned SAU.
- ii. The assistance will be provided to those farmers whose soil is acidic.
- iii. An assistance @ Rs. 500/- per ha or 50% of the cost of micronutrients whichever is less, will be given to the farmers.

#### **14.3.2 Application of micronutrients and Gypsum in Wheat**

- i. The package assistance for micronutrients and gypsum together will be 50% of the cost limited to Rs. 1,000/-per ha. The States will have flexibility as per the local needs to decide the respective share of gypsum and micronutrients in this package. However, the assistance for gypsum should not exceed Rs. 750/-per ha or 50% of the cost plus transport cost, whichever is less. **For example**, if State seeks assistance for Micro-nutrients @ 50% of the cost or Rs. 500/-per ha, whichever is less, then maximum assistance for Gypsum

will be Rs. 500/-per ha plus transport cost or 50% of the cost, whichever is less.

- ii. The assistance for gypsum will be provided to those farmers whose soil is non-saline and has alkaline pH or irrigation water is of poor quality.
- iii. The method and dose of application will be as prescribed by concerned SAU

#### **14.3.3. Integrated Nutrient Management in Pulses**

- i. An assistance for promotion of micronutrients/lime/gypsum will be provided @ Rs 1,250/ha as an INM package to the farmers. A farmer will be given assistance for a maximum of 5 ha area under pulses. The assistance will be limited to Rs. 750/- per ha for lime/gypsum and Rs. 500/- per ha for micronutrients. The assistance for gypsum should not exceed Rs. 750/-per ha or 50% of the cost plus transport cost, whichever is less.

#### **14.4 Mechanization**

- i. Mechanization in rice, wheat and pulses will help in timely completion of field operations, add to the efficiency of the farmers in performing field operations and economize upon the cost of cultivation.
- ii. Weeds pose a major problem in rice, especially those planted with SRI technique. Mechanical control of weed is relatively cheap and effective option.



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- iii. The time available for the sowing of wheat following rice is limited to 15-20 days. Delayed sowing leads to significant reduction in yield. Use of animal or tractor drawn seed drill for wheat or pulses enables farmers to cover large areas in a short period very economically. Besides, seed drill sowing leads to uniform crop stand and row spacing which facilitates interculture operations.
- iv. Tractor drawn rotavator pulverizes the soil, chops and mixes crop residues in the soil.
- v. Farm implements listed below will qualify for subsidy:
  - Conoweeder, and other small farm implements (Hand Weeders, Wheel Hoe, Rake, Rotary Tiller, Ridger, Marker, Furrow opener etc) for rice
  - Power weeders for rice recommended by ICAR/SAUs
  - Seed drills/ Zero till seed drill/ Multicrop Planter for rice, wheat and pulses
  - Rotavators for rice, wheat and pulses
  - Knapsack sprayers ( manual or power operated) for rice, wheat and pulses
- vi. The farm implements, particularly rotavators, seed drills and multi crop planter should conform to ISI standards or certified by Farm Machinery Training & Testing Institutes of Government of India, Central Institute of Agricultural Engineering(CIAE), Bhopal or SAUs.
- vii. SFSMEC would nominate the agency and fix the cost of the farm implements for supplying the same to the selected farmers.
- viii. The list of beneficiaries would be prepared by the District Agriculture Officer in consultation with the Zilla Parishad and approved by the DFSMEC. Cost of the machine, inclusive of the admissible subsidy and the farmers share, would be reimbursed by ATMA to the agency fixed by the SFSMEC for supplying the machines to the selected beneficiaries .
- ix. Central Institute on Agriculture Engineering (CIAE), Bhopal/SAU concerned - will be the nodal institute for technical support in the matter.

**14.4.1 Conoweeders, Knapsack Sprayers and other farm implements for Rice, Wheat and Pulses**

- (i) Incentive for purchase of conoweeder and associated implements @ Rs.3, 000/- per farmer or 50% of the cost, whichever is less is provided in case of rice. Whereas for other crops the same assistance only be provided for other small implements.
- (ii) A beneficiary can avail of this benefit only for one or set of machines limited to Rs.3000/- or 50% of the cost whichever is less.

**14.4.2 Zero-till seed drill/ Seed drill/Multi-crop Planters for Rice, wheat and Pulses:**

- (i) An assistance of Rs. 15,000/- per machine or 50% of the cost, whichever is less, will be provided to the beneficiary farmers. A farmer



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can avail this benefit for each machine only once during the entire period of the Mission.

- (ii) The assistance will be available to individual farmers or SHG of farmers.

#### **14.4.3 Rotavator for Rice, Wheat and Pulses:**

- (i) An assistance of Rs. 30,000/- per machine or 50% of the cost, whichever is less, will be provided. A farmer can avail of this benefit only once during the entire period of the Mission.
- (ii) The assistance will be available to individual farmers or SHG of farmers. A farmer/SHG can avail of the benefit during the entire period of the Mission for Rotavator only once.
- (iii) The assistance will preferably be given to those farmers who adopt the rice-wheat, rice-pulses system.

#### **14.4.4 Power Weeders for Rice:**

- i. An assistance of Rs. 15,000/- per machine or 50% of the cost, whichever is less, will be provided to beneficiary farmers. A farmer can avail this benefit only for one machine during the entire period of the Mission.

#### **14.5 Assistance for purchase of pump sets in Rice, Wheat and Pulses:**

- i. An assistance of 50% of the cost of the pump sets or Rs 10,000/per pump set of up to **10 H.P** per farmer, whichever is less, would be provided under the programme. The pumps must be ISI Standard or certified by **Farm Machinery Training & Testing Institutes of**

**Government of India, Central Institute of Agricultural Engineering(CIAE), Bhopal or SAUs.**

- ii. All the States are eligible for assistance for pump sets under NFSM-Rice, NFSM-Wheat and NFSM-Pulses. However, the pump sets may be promoted only in those blocks of the districts which are not categorized under dark or brown zone of groundwater as specified by the Central Ground Water Board.
- iii. For energization of agricultural pump sets, this component will be integrated with the **Rajiv Gandhi Gramin Vidyutikaran Yojana.**

#### **14.6 Distribution of Sprinkler Sets for Wheat and Pulses:**

- i. It is envisaged to increase irrigated area under pulses from the existing 16% to 21% in the NFSM-Pulses implementing districts during XI plan period. Similarly, the irrigation use efficiency in NFSM-Wheat districts should also be enhanced.
- ii. The states will compile the districtwise details of sprinkler sets distributed during X plan under all schemes. This will help in fixing the benchmarks for monitoring of this component on an yearly basis.
- iii. DFSMEC would approve the list of beneficiaries prepared by the District Agriculture Officer in consultation with the Zilla Parishad. It would be ensured that only those beneficiaries are selected who have not availed of any similar benefit under any other scheme being implemented in the district.



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- iv. The financial assistance under this component will be @ 50% of the cost of the set, limited to Rs.7, 500/- ha for all categories of farmers.

#### 14.7 Integrated Pest Management(IPM)

- i. DFSMEC would approve the list of beneficiaries prepared by the District Agriculture Officer in consultation with the Zilla Parishad.
- ii. Benefit under this component would be extended in kind to the farmer.
- iii. Ensuring the quality of inputs shall be the responsibility of the selected State / District Level Agencies.

##### 14.7.1 IPM in Rice

- i. Financial assistance of Rs.500/- per ha or 50% of the cost whichever is less will be provided for promotion of Integrated Pest Management, including plant protection chemicals and bio-pesticides in the identified districts.
- ii. The assistance will be limited to a maximum of 5 ha per farmer.

##### 14.7.2 IPM in Pulses

Following measures will be supported:

- (a) Use of Pheromone traps;
- (b) Mechanical control through collection and destruction of egg masses, larvae and adults; use of light traps
- (c) Biological control by conserving naturally occurring parasites, predators and pathogens;
- (d) Use of bio-pesticides shall be strictly in accordance with the recommendations of SAUs/ICAR/ Central Biological Control Laboratories of the Directorate of

Plant Protection Quarantine & Storage;

- (e) Use of chemicals
- (f) The financial assistance for need based inputs for IPM including pesticide, bio-pesticides, bio-agents etc., will be @ Rs 750/- per ha or 50% of the cost whichever is less.

#### 14.8 Training of Trainers and Extension Workers in Pulses

- i. For popularization of cultivation of pulses in rice fallows, intercropping and application of modern production technologies, training of trainers / training of farmers and extension workers will be organized.
- ii. Indian Institute of Pulses Research(IIPR), Kanpur will be the nodal agency for organizing trainings/workshops/seminars for trainers/officers of NFSM-Pulses implementing states at the National level. IIPR, Kanpur will be provided with financial assistance of Rs.5.00 crores for the entire XIth Five Year Plan period on project basis for strengthening of training infrastructure and for organizing training programmes at IIPR, Kanpur and other designated institutions in the country for which a detailed project proposal will be required to be submitted to the NFSMEC.
- iii. Training of extension workers under NFSM -Pulses with an assistance of Rs. 1.0 lakh per training of 50 trainees will also be conducted by the states concerned. Each training session would be for a period of two days. The detailed breakup of items in each training is as follow:



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## DETAILS OF EXPENDITURE PLAN FOR TRAINING OF TRAINERS UNDER NFSM PULSES

Particulars	Rs. (For two days)
Honorarium to Training Coordinator.	1,000.00
Honorarium to Lectureres @ Rs. 500/-per lecture & Sectt Staff.	8,000.00
Stationary to the participants @ Rs. 50/-per participants (Pen, Copy, Plastic Folders).	2,500.00
Morning & Evening Tea during the training for two days @ Rs. 10/-per participant per session for 50 participants (this will take care of organizers and resource speakers also).	2,000.00
Contingencies for preparation of AV aids, photocopy of lectures, expenditure on practical training and other unforeseen expenses.	10,500.00
Supply of supportive literature to 50 participants @ Rs. 100/-per head.	5,000.00
Boarding & Lodging for 50 participants @ Rs. 150/-per head per day.	15,000.00
Traveling Expenditure (Actual as per entitlement).	56,000.00
<b>Total</b>	<b>1,00,000.0</b>





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## 14.9 Training of Farmers on FFS Pattern

- iv. The objective of the Farmers' Field School (FFS) will be to provide first hand information to the farmers in their fields to enable them to adopt the improved crop production technologies for higher productivity.
- v. Location and the list of beneficiaries for each Farmers' Field School prepared by the District Agriculture Officer in consultation with the Zilla Parishad would be approved by DFSMEC.
- vi. Each school will be conducted at a site in close proximity of a good demonstration on Improved Package of Practices/SRI/Hybrid Rice technology as the case may be.
- vii. There will be a season long training of the farmers in their fields for a single day in a week or fortnight , organized on the various aspects of crop production technologies of rice wheat and pulses.
- viii. District level Consultants of NFSM should invariably be associated with the conduct of these schools. He will also be responsible for the development of course curriculum in consultation with State Consultants as well as with the scientists of KVKs.
- ix. There will be one FFS for every 1,000 ha of area. One facilitator will be identified from the State Department of Agriculture who will run the school. However, need based experts in Crop Production/ Crop Protection to be drawn from SAUs / Government of India and ICAR Institutes from time to time. The number of farmers will be limited to 30 only for each FFS. Each FFS will run for a period from 4 to 5 hours in the morning or any convenient time as decided upon by the facilitators and the farmers.
- x. The total number of training sessions in each FFS will vary from 8 to 20. Some of the sessions may be weekly while other may be conducted on fortnightly basis depending on the course curriculum developed for these schools.
- xi. The financial assistance will be limited to Rs.17, 000/-per training per FFS in the identified districts. The detailed break-up of items in each Training session of FFS are as follows:

S. No.	Item	Amount (Rs.)
1	Honorarium for one Facilitator @ Rs.250/- Per session (for 20 Sessions).	5000/-
2	FFS training materials, supplies, stationeries etc.	3000/-
3	Tea/Snacks for trainees and trainers @ Rs. 10/- per head per session for 30 farmers.	6,000/-
4	Field Day and other Misc. Expenditure.	3000/-
	<b>TOTAL</b>	<b>17,000/-</b>



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#### 14.9 Exposure visit to International Organizations

- i. In order to enrich the knowledge base of the technical personnel involved in the Mission, exposure visits to and training of technical officers/staff in international organizations like IRRI, Manila, China and Madagascar for rice (production technology, SRI and rice hybrids), CYMMIT, Mexico for Wheat (Zero Tillage and resource conservation technology) and ICRISAT for Pulses will be provided.
- ii. A sum of Rs.2 crores will be provided in the XIth plan period
- iii. NFSMEC would approve the proposal made by the Mission Director for organizing the envisaged exposure visits.

#### 14.10 Publicity, Mass media and Information Technology

- i. For popularisation of the National Food Security Mission, wide publicity will be undertaken through print, electronic media and other methods.
- ii. For monitoring the programme, video conferencing with different states and districts will be held in the Ministry of Agriculture, Government of India.
- iii. The Publicity and the mass media components will be implemented directly by the Extension Division of the Ministry of Agriculture, Government of India as well as by the States. Provision of Rs. 25 crores during 2007-08 and Rs. 50 crores in subsequent years have been made

for mass media, extension and information communication technology.

- iv. The agency for advertisement in print and electronic media will be decided by a Committee to be constituted by Extension Division of DAC.
- v. The Extension Division will furnish Utilisation Certificate as per the prescribed procedure.
- vi. Funds for this component would be released to the States, on the advice of the Extension Division, as a part of overall releases to the States under the NFSM.
- vii. SFSMEC shall set up a '**State Publicity Campaign Sub-Committee on NFSM**' which will be responsible for all publicity matters including decision on use of funds, concerning NFSM. This sub committee would function under the overall guidance and control of SFSMEC.
- viii. Extension Division shall issue guidelines for use of publicity funds by the States. These guidelines will be issued with the approval of the GC.
- ix. For information needs of the Mission stakeholders, Rs. 14 crores is provided for creating, managing and maintaining the information infrastructure.

#### 14.11 Award for the best performing districts

- (i) There would be awards for outstanding performance by the districts for the implementation of NFSM. The award amount provided



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is Rs. 5 lakh per district for each of the three components - NFSM Wheat, Rice and Pulses. The funds for this purpose will be released to States after getting proposals from the State Level Agency duly vetted by SFSMEC.

- (ii) Awards will be given every two years at the State level for the best performing district in a State under each of the three components - NFSM Rice, Wheat and Pulses. There would be an award for the best three districts at the National level for each of the three NFSM Rice, Wheat and Pulses - to be given at the end of the Mission.
- (iii) SFSMEC, on the basis of criteria for assessing the performance, would select the districts for giving the awards. NFSMEC would similarly select the districts for giving awards at the National level.
- (iv) Best districts at the State level would get an amount of Rs. 5 lacs each and at the National level the amount would be Rs. 10 lacs each.
- (v) The State awards will be given preferably by the Chief Minister of the concerned State on Independence Day/ Republic Day/ Gandhi Jayanti etc. The National awards will be given by the Agriculture Minister during the Rabi campaign conference.
- (vi) The money for the award will be utilized for the development of the infrastructure of the district agriculture department by following the laid out norms of the State Government.

- (vii) The performance of the districts will be judged by assigning weights to various activities on a scale of 100. The highest scoring district in a State will be selected for the award. Following criteria will be adopted to judge the performance of the districts:

	Set of Parameters	Weightage
a.	Increase in the productivity of the crops-rice, wheat, pulses	30
b.	Utilization of funds in terms of physical and financial targets	20
c.	Increase in Seed Replacement Rate	10
d.	Adoption of balanced use of fertilizers	10
e.	Integrated Pest Management	10
f.	Capacity building of farmers	5
g.	Adoption of resource conservation technologies	5
h.	Reclamation of alkaline / acidic soils	5
i.	Adoption of local initiatives	5
	<b>Total</b>	<b>100</b>

- (viii) The yield of crops will be recorded by the Project Management Teams/ KVKs from randomly selected plots of demonstrations and also from other fields of farmers where the interventions have been adopted in the districts. The data thus obtained will be scrutinized and vetted by a



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Technical Committee constituted under Vice Chancellor of the SAUs in the State.

## 14.12 Pilot Projects

### 14.12.1 Pilot Project under NFSM Wheat on community generators for irrigation

- (i) In shallow water table areas of Bihar, Eastern UP and West Bengal, assistance for community generators will be provided to group of farmers for irrigation.
- (ii) The funds will be released on the basis of a project, which will be scrutinized by an expert committee to be identified by NFSMEC for the purpose.
- (iii) To begin with, an amount of Rs. 5 crores has been earmarked for the component. The basic criteria for selection of State/district will be as follows:
  - a) The availability of electricity is inadequate.
  - b) Adequate ground water is available at shallow depth.

### 14.12.2 Pilot project under NFSM Pulses to popularize ICRISAT technologies

International Crop Research Institute for Semi Arid Tropics(ICRISAT) has developed a number of technologies for pulses production. Financial assistance to the extent of Rs.20 crores has been earmarked for ICRISAT for the entire XIth Five Year Plan period for large scale demonstrations of production technologies on pilot basis for which a detailed project proposal will be required to be submitted to the NFSMEC.

### 14.12.3 Pilot project under NFSM Pulses for management of blue bulls

For tackling the menace of blue bull

(Neelgai) which has emerged as a major threat to pulse crops, an amount of Rs.2.00 crores will be provided during XIth Plan. The funds will be released to States on project basis.

## 14.13 Local Initiatives

- (i) To support important location specific activities, which are otherwise not covered under the normal activities of the Mission but can help in boosting the production of rice, wheat and pulses, the districts will be provided assistance.
- (ii) The assistance will be limited to **Rs. 2 crores per district** for the entire XIth Plan Period, where **two or more crops of the Mission** are implemented. For the districts where **only one crop is implemented**, the assistance will be limited to **Rs. 1 crore**.
- (iii) Interventions need to be part of the Strategic Research and Extension Plan (SREP) drawn up by the ATMA of the District.
- (iv) The interventions so proposed would be evaluated by a team of experts at the State level and will be cleared by the State Food Security Mission Executive Committee for releasing the funds to the implementing agency at the district level.

## 14.14 Miscellaneous Expenditure

- (i) Assistance to districts to improve the mobility of the staff involved in NFSM implementation for POL, repair & maintenance of vehicles, contingency for stationery and other



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miscellaneous expenses will be provided @ Rs. 1.50 lakh during the first year and for the remaining years @ Rs. 1 lakh per year per district.

- (ii) At the State level, an assistance for POL, repair & maintenance of vehicle, contingency for stationery and other miscellaneous expenses @ Rs. 1.00 lakh per year will be provided. Assistance for one computer, along with accessories (printer, monitor, UPS) will also be provided @ Rs. 1.0 lakh in the first year. However, such support will not include any expenditure for recurring expenses like pay and allowances to the staff of the State Government. Rs. 5.0 lakh per year will also be provided for outsourcing technical experts for training,

evaluation and impact analysis, baseline survey, etc.

- (iii) At the National level, an assistance for organization of seminars, symposia, publication of bulletins, purchase of computers with accessories, furniture and other contingency expenses like hiring vehicles, etc will be provided @ Rs. 30 lakh per year. Besides Rs. 3.0 crores has been earmarked for impact analysis and Rs. 3.25 crore for concurrent evaluation.
- (iv) These expenses will be made after the approval of NFSMEC and following the accepted principles and norms of expenditure.

The details of the components along with their approved norms of assistance are given in **Annexure-III(a) to III(c)**.





## BASIC QUALIFICATIONS AND EXPERIENCE OF TECHNICAL CONSULTANTS

Level and post	Educational Qualification & experience
<b>A. District level:</b>	
Consultants	1. Basic degree in Agriculture with Masters Degree in Agronomy/Agri. Extension/ Soil Science/crop improvement having at least 10 years of field experience in crop production/Agril. Extension services.
	2. The person should have the ability of team leadership & motivation.
Technical Assistants	1. Basic degree in Agriculture with computer skills.
	2. Person with experience of research and extension will be given preference.
<b>B. State Level</b>	
Consultants	1. Doctorate Degree in Agronomy/ Agriculture Extension/Soil Science/Plant Breeding having at least 10 years of field experience in crop production/Crop Improvement.
	2. Ability to analyze data and preparation of projects, writing reports/seminar notes/ articles as evidenced by publication in national and international journals.
	3. The person should have the ability of team leadership & motivation.
Sr. Technical Assistants	1. Master degree in Agriculture with specialization in management of field crops. Knowledge of computer essential.
	2. Person with experience of research and extension will be given preference.

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Level and post	Educational Qualification & experience
<b>C. National Level</b>	
Consultants	1. Doctorate Degree in Agronomy/ Agriculture Extension/Soil Science/Plant Breeding/crop improvement or M. Tech in Engineering having at least 15 years of field experience in crop production/Crop Improvement/ natural resource management/ mechanization or 5 years experience in the rank of Additional Commissioner in Government of India.
	2. Ability to analyze data and preparation of projects, writing reports/seminar notes/ articles as evidenced by publication in national and international journals.
	3. The person should have the ability of team leadership & motivation.
Senior Technical Assistants	1. Master degree in Agronomy/Soil science/ Agriculture Extension/Plant Breeding with specialization in management of field crops. Knowledge of computer essential.
	2. Person with experience of research and extension will be given preference.



## NFSM-RICE DISTRICTS (Total 136 Districts)

State	District	State	District	State	District
<b>1. Andhra Pradesh (11)</b>		<b>3. Bihar (18)</b>		7	Raigarh
1	Adilabad	1	Araria	8	Raipur
2	Guntur	2	Bhanka	9	Raj Nandgaon
3	Khammam	3	Champaran (East)	10	Sarguja
4	Krishna	4	Champaran (West)	<b>5. Gujarat (2)</b>	
5	Mahaboobnagar	5	Darbhangha	1	Dahod
6	Medak	6	Gaya	2	Panchmahals
7	Nalgonda	7	Jamui	<b>6. Jharkhand (5)</b>	
8	Nellore	8	Katihar	1	Gumal
9	Srikakulam	9	Kishanganj	2	Hazaribagh
10	Visakhapatnam	10	Madhubani	3	Ranchi
11	Vizianagarm	11	Madhepura	4	Simdega
<b>2. Assam (13)</b>		12	Muzaffarpur	5	Singhbhumi (w)
1	Barpeta	13	Nalanda	<b>7. Karnataka (7)</b>	
2	Bongaigaon	14	Saharsa	1	Belgaum
3	Darrang	15	Samastipur	2	Dakshin Kannada
4	Dhemaji	16	Sitamarhi	3	Hassan
5	Goalpara	17	Siwan	4	Raichur
6	Karbi-Anglong	18	Supaul	5	Shimoga
7	Kokrajhar	<b>4. Chhattisgarh (10)</b>		6	Uduppi
8	Lakhimpur	1	Dantewara	7	Uttar Kanada
9	Morigon	2	Janjgir-Champa	<b>8. Kerala (1)</b>	
10	Nalbari	3	Jashpur	1	Pallakkad
11	Sonitpur	4	Kawardha		
12	Nagaon	5	Korba		
13	Tinsukia	6	Koriya		

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State	District	State	District	State	District
<b>9. Madhya Pradesh (9)</b>		9	Keonjhar	12	Gonda
1	Anuppur	10	Malkangiri	13	Gorakhpur
2	Damoh	11	Nawapara	14	Hardoi
3	Dindori	12	Nawrangpur	15	Mainpuri
4	Katni	13	Nayagarh	16	Mau
5	Mandla	14	Phulbani	17	Mirzapur
6	Panna	15	Sundargarh	18	Raebareli
7	Rewa	<b>12. Tamil Nadu (5)</b>		19	Rampur
8	Satna	1	Nagapattinam	20	Saharanpur
9	Shahdol	2	Pudukkottai	21	Shivasti
<b>10. Maharashtra (6)</b>		3	Ramanathapuram	22	Siddharthnagar
1	Bhandara	4	Sivagangai	23	Sitapur
2	Chandrapur	5	Thiruvavur	24	Sonbhadra
3	Gadchiroli	<b>13. Uttar Pradesh (26)</b>		25	Sultanpur
4	Gondia	1	Azamgarh	26	Unnao
5	Nasik	2	Badaun	<b>14. West Bengal (8)</b>	
6	Pune	3	Bahraich	1	24 Parganas (South)
<b>11. Orissa (15)</b>		4	Ballia	2	Cooch-Bihar
1	Angul	5	Balrampur	3	Dinajpur(North)
2	Bolangir	6	Banda	4	Howrah
3	Boudha	7	Bareilly	5	Jalpaiguri
4	Deoghar	8	Basti	6	Midnapur (East)
5	Dhenkanal	9	Deoria	7	Midnapur (West)
6	Jajpur	10	Fatehpur	8	Purulia
7	Jharsuguda	11	Ghazipur		
8	Kalahandi				



## NFSM-WHEAT DISTRICTS (Total 141 Districts)

State	District	State	District	State	District
<b>1. Bihar (25)</b>		<b>2. Gujarat (4)</b>		9	East Nimar
1	Araia	1	Ahmedabad	10	Guna
2	Banka	2	Banaskantha	11	Harda
3	Bhagalpur	3	Sabarkantha	12	Indore
4	Bhabua	4	Mehsana	13	Jabalpur
5	Champan(E)	<b>5. Gujarat (2)</b>		14	Jhabua
6	Champan(W)	1	Dahod	15	Katni
7	Darbhanga	2	Panchmahals	16	Mandla
8	Jamui	<b>3. Haryana (7)</b>		17	Panna
9	Katihar	1	Ambala	18	Raisen
10	Khagaria	2	Bhiwani	19	Rajgarh
11	Kishanganj	3	Gurgaon	20	Rewa
12	Madhubani	4	Jhajjar	21	Sagar
13	Madhepura	5	Rohtak	22	Satna
14	Munghyr	6	Mahendergarh	23	Shahadol
15	Muzaffarpur	7	Yamunanagar	24	Sehore
16	Nalanda	<b>4. Madhya Pradesh (30)</b>		25	Seoni
17	Nawada	1	Balaghat	26	Shivpuri
18	Purnea	2	Betul	27	Sidhi
19	Rohtas	3	Bhind	28	Tikamgarh
20	Samastipur	4	Chhattarpur	29	Ujjain
21	Saran	5	Damoh	30	Vidisha
22	Sheikhpura	6	Dewas	<b>5. Maharashtra (8)</b>	
23	Sitamarhi	7	Dhar	1	Ahmednagar
24	Supaul	8	Dindori	2	Aurangabad
25	Vaishali			3	Dhule

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State	District	State	District	State	District
4	Nagpur	9	Nagore	19	Jaunpur
5	Nasik	10	Pali	20	Jhansi
6	Parbhani	11	S. Madhopur	21	Kaushambi
7	Pune	12	Sikar	22	Kushinagar
8	Sholapur	13	Sirohi	23	Lucknow
<b>6. Punjab (10)</b>		14	Tonk	24	Maharajganj
1	Amritsar	15	Udaipur	25	Mainpuri
	Barnala	<b>8. Uttar Pradesh (38)</b>		26	Mathura
	Bhatinda	1	Allahabad	27	Mau
	Ferozpur	2	Ambedkar Nagar	28	Pratapgarh
	Gurdaspur	3	Azamgarh	29	Rai Bareilly
	Hoshiarpur	4	Bahraich	30	Ravidas Nagar
	Mohali	5	Ballia	31	Sant Kabir Nagar
	Roopnagar	6	Balrampur	32	Shravasti
	Sangroor	7	Barabanki	33	Siddharthnagar
	Taran Taran	8	Bareilly	34	Sitapur
<b>7. Rajasthan (15)</b>		9	Basti	35	Sonbhadra
1	Ajmer	10	Chandauli	36	Sultanpur
	Banswara	11	Deoria	37	Unnao
	Bhilwara	12	Faizabad	38	Varanasi
	Bikaner	13	Fatehpur	<b>9. West Bengal (4)</b>	
	Jaipur	14	Ghazipur	1	Coochbehar
	Jalore	15	Gonda	2	Dinajpur(N)
	Jhalawar	16	Gorakhpur	3	Dinajpur(S)
	Kota	17	Hamirpur	4	Jalpaiguri
		18	Hardoi		



## NFSM-PULSES DISTRICTS (Total 171 Districts)

State	District	State	District
<b>1. Andhra Pradesh (14)</b>		11	Saharsa
1	Adilabad	12	Samastipur
2	Anantpur	13	Supaul
3	Cuddapah	<b>Total</b>	<b>13 districts</b>
4	East Godavari	<b>3. Chhattisgarh (8)</b>	
5	Guntur	1	Bilaspur
6	Khammam	2	Durg
7	Krishna	3	Jashpur
8	Kurnool	4	Kawardha
9	Mahaboobnagar	5	Raigarh
10	Nalgonda	6	Raipur
11	Nizamabad	7	Rajnandgaon
12	Prakasam	8	Sarguja
13	Srikakulam	<b>Total</b>	<b>8 districts</b>
14	Warangal	<b>4. Gujarat (11)</b>	
<b>Total</b>	<b>14 districts</b>	1	Banaskantha
<b>2. Bihar (13)</b>		2	Broach
1	Araria	3	Dohad
2	Aurangabad	4	Jamnagar
3	Bhabhua	5	Kutch
4	Bhojpur	6	Narmada
5	Madhubani	7	Panch Mahals
6	Mahadevpura	8	Patan
7	Muzaffarpur	9	Sabarkantha
8	Nalanda	10	Surat
9	Patna	11	Vadodara
10	Purnea	<b>Total</b>	<b>11 districts</b>

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State	District	State	District
<b>5. Haryana (5)</b>			
	1 Bhiwani		6 Jabalpur
	2 Hisar		7 Jhabua
	3 Rohtak		8 Narsingpur
	4 Sirsa		9 Panna
	5 Sonapat		10 Raisen
<b>Total</b>	<b>5 districts</b>		11 Rajgarh
<b>6. Karnataka (13)</b>			12 Rewa
	1 Bagalkot		13 Sagar
	2 Belgaum		14 Satna
	3 Bellary		15 Seoni
	4 Bidar		16 Shajapur
	5 Bijapur		17 Shivpuri
	6 Chitradurga		18 Tikamgarh
	7 Dharwad		19 Ujjain
	8 Gadag		20 Vidisha
	9 Gulburga	<b>Total</b>	<b>20 districts</b>
	10 Koppal	<b>8. Maharashtra (18)</b>	
	11 Mysore		1 Ahmednagar
	12 Raichur		2 Akola
	13 Tumkur		3 Amravati
<b>Total</b>	<b>13 districts</b>		4 Aurangabad
<b>7. Madhya Pradesh (20)</b>			5 Buldhana
	1 Chhatarpur		6 Chandrapur
	2 Chindwara		7 Hingoli
	3 Damoh		8 Jalgaon
	4 Dewas		9 Jalana
	5 Guna		10 Latur
			11 Nagpur

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NATIONAL FOOD SECURITY MISSION

State	District	State	District
	12 Nanded	<b>11. Rajasthan (16)</b>	
	13 Nasik	1	Ajmer
	14 Osmanabad	2	Barmer
	15 Parbhani	3	Bikaner
	16 Wardha	4	Chittorgarh
	17 Washim	5	Churu
	18 Yavatmal	6	Dausa
<b>Total</b>	<b>18 districts</b>	7	Ganganagar
<b>9. Orissa (10)</b>		8	Hanumangarh
	1 Baragarh	9	Jaipur
	2 Bolangir	10	Jhunjhunu
	3 Cuttack	11	Jodhpur
	4 Ganjam	12	Kota
	5 Kalahandi	13	Nagore
	6 Keonjhar	14	Pratapgarh
	7 Khurda	15	Sikar
	8 Nayagarh	16	Tonk
	9 Puri	<b>Total</b>	<b>16 districts</b>
	10 Rayagada	<b>12. Tamilnadu (12)</b>	
<b>Total</b>	<b>10 districts</b>	1	Coimbatore
<b>10. Punjab (7)</b>		2	Cuddalore
	1 Amritsar	3	Erode
	2 Barnala	4	Nagapattinam
	3 Firozpur	5	Namakkal
	4 Gurdaspur	6	Thiruvallur
	5 Ludhiana	7	Thiruvavur
	6 Sangrur	8	Thoothukudi
	7 Tarantaran	9	Tiruvannmalai
<b>Total</b>	<b>7 districts</b>		

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State	District	State	District
	10 Vellore		12 Jhansi
	11 Villupuram		13 Kanpur (Dehat)
	12 Virudunagar		14 Kaushambi
<b>Total</b>	<b>12 districts</b>		15 Kheri
			16 Lalitpur
			17 Mahoba
			18 Mirzapur
			19 Sitapur
		<b>Total</b>	<b>19 districts</b>
		<b>14. West Bengal (5)</b>	
			1 Birbhum
			2 Malda
			3 Murshidabad
			4 Nadia
			5 Purulia
		<b>Total</b>	<b>5 districts</b>





## SUMMARY OF PATTERN OF ASSISTANCE

Sl. No.	Components	Pattern of Assistance	Crops in which admissible		
			Rice	Wheat	Pulses
<b>1.</b>	<b>Demonstration</b>				
1.1.	Improved package	Rs. 2500/- per demo of 0.40 ha for Rice and Rs. 2000 per demo of 0.40 ha for Wheat	✓	✓	
1.2.	SRI and Hybrids	Rs. 3000/- per demo of 0.40 ha	✓		
<b>2.</b>	<b>Seed</b>				
	Production of breeder seed of pulses and infrastructure development	Rs. 2.0 crore to IIPR annually on project basis			✓
	Purchase of breeder seed of pulses from ICAR/SAUs	Full cost to be reimbursed (Rs. 5625/- per qtl)			✓
	Production of Foundation and certified seed of pulses	Rs. 1000/- per qtl			✓
	Production of hybrid rice seed	Rs. 1000/- per qtl for hybrid rice	✓		
	Strengthening of seed certification Agency	Rs. 25.0 lakh per state per year			✓
<b>3.</b>	<b>Seed Distribution</b>				
	HYVs of rice, wheat and pulses	(i) Rs. 500/- per qtl or 50% of the cost whichever is less for rice and wheat.	✓	✓	
		(ii) Rs. 1200/- per qtl or 50% of the cost whichever is less for pulses			✓
	Hybrids of Rice	Rs. 2000/- per qtl or 50% of the cost whichever is less	✓		
	Seed Mini kits of High yielding varieties/Hybrids	Full cost of the seed of High yielding varieties/Hybrids including other charges. <b>(Size of minikts: 10 kg each for wheat, 5 kg each for HYV of rice and 6 kg each for Hybrids of rice)</b>	✓	✓	

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Sl. No.	Components	Pattern of Assistance	Crops in which admissible		
			Rice	Wheat	Pulses
<b>4.</b>	<b>Farm Machineries</b>				
	Cono weeder and other farm implements	Rs. 3,000/- per farmer or 50% of the cost, whichever is less for one or set of the machines (conoweeder and associated implements only for rice; other small implements for all the crops of NFSM)	✓	✓	✓
	Knap Sack Sprayers (manual and power operated)	Rs. 3,000/- per farmer or 50% of the cost, whichever is less for one or set of the sprayers	✓	✓	✓
	Zero Till Seed Drills	Rs. 15000/- per Zero Till Seed Drills or 50% of the cost, whichever is less	✓	✓	✓
	Multi-crop Planters	Rs. 15000/- per Multi-crop Planters or 50% of the cost, whichever is less	✓	✓	✓
	Seed cum fertilizer Drills	Rs. 15000/- per Seed cum fertilizer Drills or 50% of the cost, whichever is less	✓	✓	✓
	Rotavators	Rs. 30000/- per Rotavators or 50% of the cost, whichever is less	✓	✓	✓
	Power weeders	Rs. 15000/- per power weeder or 50% of the cost, whichever is less	✓		
<b>5.</b>	<b>Irrigation devices</b>				
	Pump sets	Rs. 10000/- per pumpset of capacity up to 10 H.P. or 50% of the cost, whichever is less	✓	✓	✓
	Sprinkler Systems	Rs. 7,500/-per ha or 50% of the cost whichever is less	✓	✓	
<b>6.</b>	<b>Plant protection</b>				
	Plant protection chemicals and bio-pesticides in rice	Rs. 500 per ha or 50% of the cost, whichever is less	✓		
	IPM including chemicals, biopesticides, pheromone traps, etc	Rs 750/ha or 50% of the cost whichever is less.			✓

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Sl. No.	Components	Pattern of Assistance	Crops in which admissible		
			Rice	Wheat	Pulses
7.	<b>Micro-nutrients and Soil ameliorants</b>				
	Gypsum in wheat	Assistance at 50% of the cost of material plus transportation cost limited to Rs. 750/ per ha within the package of Rs. 1000 per ha admissible for wheat for Gypsum and micronutrients together.		✓	✓
	Micronutrients in wheat and pulses	Assistance at 50% of the cost limited to Rs. 500/ per ha within the package of Rs. 1000 per ha admissible for wheat and Rs. 1250 per ha admissible in pulses for Gypsum/lime and micronutrients together.	✓	✓	✓
	Micronutrients in Rice	Assistance at 50% of the cost limited to Rs. 500 per ha	✓		
	Lime /liming materials in rice and Lime /gypsum in pulses	Assistance at 50% of the cost material limited to Rs. 500 per ha in rice. Assistance at 50% cost of the of material plus transportation charges limited to Rs. 750/ per ha in pulses for lime/gypsum.	✓		✓
8.	<b>Training</b>				
	Infrastructure development for training including imparting training to farmers	Rs. 5.0 crore for entire XIth five year plan			✓
	Farmers training at the pattern of FFS	Rs. 17000/- per FFS for season long training	✓	✓	✓
	Training of trainers	Rs.1.0 lakh per training			✓
9.	<b>Pilot Projects</b>				
	Demonstration on ICRISAT Technology	Funding on project basis. Rs. 20.0 crore earmarked for XI plan			✓

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Sl. No.	Components	Pattern of Assistance	Crops in which admissible		
			Rice	Wheat	Pulses
	Management of blue bulls	Funding on project basis. Rs. 2.0 crore earmarked for XI plan			✓
	Community generators for irrigation	Funding on project basis. Rs. 5.0 crore earmarked for XI plan		✓	
10.	<b>Publicity and Mass Media Campaign</b>	Total allocation -Rs. 25 crore for 2007-08 and Rs. 50 crore per year of remaining period of XI Plan. Allocation to States will be based on number of districts and crop coverage under NFSM. 20% fund to be earmarked at national level	✓	✓	✓
11.	<b>Award for best performing districts in a State</b>	Rs. 5.0 lakh for best districts in each crop (after two years) in the State against accepted norms/principles to be decided by SFSMEC. Rs.10.0 lakh to the best districts amongst NFSM district in the country in each crop.	✓	✓	✓
12.	<b>Exposure visit</b>	Rs. 2.0 crores is provided at National level	✓	✓	✓
13.	<b>Local initiatives</b>	Funding on Project basis. Rs 2.0 crore per district during XI plan for the districts which have two or more crops of NFSM and Rs. 1.0 crore per districts which have only one crop.	✓	✓	✓
14.	<b>Project Management Team</b>				
	National Level	Honorarium of Rs. 35000/- per month for consultants and Rs 15000/- per month for Sr. technical assistants.	6 Consultants and 8 Senior Technical Assistants.		
	State level	Honorarium of Rs. 20000/- per month for Consultant and Rs 12000/- per month for Sr. technical assistants.	2 Consultants and 2 Senior Technical Assistants each in rice and wheat and 1 Consultant and 2 Senior Technical Assistants in pulses		

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Sl. No.	Components	Pattern of Assistance	Crops in which admissible		
			Rice	Wheat	Pulses
	District level	Honorarium of Rs. 15000/- per month for Consultant and Rs 8,000/- per month, for technical assistants.	1 consultant and 4 technical assistants	1 consultant and 4 technical assistants	1 consultant and 2 technical assistants
<b>15.</b>	<b>Miscellaneous expenses</b>				
	District Level	Rs. 6.36 Lakh per district per year for Rice; Rs. 6.38 Lakh per district per year for Wheat and Rs. 4.47 Lakh per district per year for Pulses. This includes salaries of Consultants and STAs in the district	✓	✓	✓
	State level	Rs. 13.87 Lakh per State per year each for Rice, Wheat and Rs. 6.28 lakh per State per year for Pulses. This includes salaries of Consultants and STAs in the State	✓	✓	✓
	National Level	Rs. 84.56 lakh per year each for rice and wheat and Rs. 88.40 lakh per year for pulses. This includes salaries of Consultants and STAs, contingencies etc			
	Concurrent evaluation	Rs. 25 lakh per year for rice, wheat and pulses from 2008-09 onward	✓	✓	✓
	Impact Analysis	Rs. 1.5 crore for rice and wheat each	✓	✓	





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## PATTERN OF ASSISTANCE FOR COMPONENTS OF NFSM-RICE

S. No.	Components	Description/Assumptions	Pattern of assistance
1	Demonstration of improved package of practices	Assistance for improved seed, balanced fertilizer, plant protection, weedicide. Target Area 12 million ha. One demonstration of 0.4 ha at every 100 ha area of rice. Total number of demonstrations = 1.2 lakh	Rs. 2,500 per demonstration of 0.4 ha
2	Demonstration on System of Rice Intensification (SRI)	Assistance for improved seed, balanced fertilizer, plant protection, weedicide. Target Area 5 million ha. One demonstration of 0.4 ha at every 100 ha area of rice. Total number of demonstrations = 0.5 lakh	Rs. 3,000 per demonstration of 0.4 ha
3	Demonstration on hybrid rice technology	Assistance for improved seed, balanced fertilizer, plant protection, weedicide. Target Area 3 million ha. One demonstration of 0.4 ha at every 100 ha area of rice. Total number of demonstrations = 0.3 lakh	Rs. 3,000 per demonstration of 0.4 ha
4	<b>Support for promotion of hybrid rice seed</b>		
	(a) Assistance for production of hybrid rice seed	Target area 3 million ha. Total seed requirement @ 15 kg/ha = 4.5 lakh Qtl	Rs. 1,000 per qtl
	(b) Assistance for distribution of hybrid rice seed	Target area 3 million ha. Total seed requirement @ 15 kg/ha = 4.5 lakh Qtl	Rs. 2,000 per qtl or 50% of the cost, whichever is less
5	Assistance for distribution of HYVs Seed	Target area 20 million ha. Desired SRR 33%. Total Seed required @ 40kg ha seed rate for achieving 33% SRR in 20 m ha = 26.4 lakh Qtl.	Assistance @ Rs. 5/- per kg or 50% of the cost, whichever is less
6	Seed Minikits of High yielding varieties/Hybrid rice	Target area 20 million ha. One seed kit of 5 kg at every 50 ha area of rice. Total seed required = 0.2 lakh Qtl. every year	Full cost of the seed

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S. No.	Components	Description/Assumptions	Pattern of assistance
7	Incentive for micro nutrients (in deficient soils)	Target area 3.02 million ha area i.e about 30% of the deficient area of targeted districts.	Assistance @ Rs. 500/- per ha or 50% of the cost, whichever is less
8	Incentive for liming in acid soils	Target area 3.02 million ha. About 30% of the acid affected soils in Targeted districts.	Assistance @ Rs. 500/- per ha or 50% of the cost, whichever is less
9	Incentive for cono weeder and other farm implements	Target 4,50,000 conoweeder to be provided in the area where SRI is to be promoted.	Assistance @ Rs.3,000 per farmer or 50% of the cost, whichever is less
10	Zero Till Seed Drills/ Multi-crop Planters/ Seed Drills		Assistance @ 50% of the cost limited to Rs. 15,000/-per machine, whichever is less.
11	Rotavators		Assistance @ 50% of the cost limited to Rs. 30,000/-per machine, whichever is less.
12	Incentive for Pumpsets.		Assistance @ 50% of the cost limited to Rs. 10,000/-per machine, whichever is less.
13	Distribution of Power Weeders		Assistance @ 50% of the cost limited to Rs. 15,000/-per machine, whichever is less.
14	Knap Sack Sprayers (Manual and power operated)		Assistance @ 50% of the cost limited to Rs. 3,000/-per machine, whichever is less.
15	Assistance for plant protection chemicals and bio-pesticides	Target 2.1 million ha. About 10% of the targeted area of rice.	Assistance @ Rs. 500/- per ha or 50% of the cost, whichever is less
16	Farmers' Training (a) Training of farmers on FSS pattern	One FFS at every 1000 ha (2-3 villages)	Rs. 17,000 per training (Full cost)

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S. No.	Components	Description/Assumptions	Pattern of assistance
17	Awards for best performing District	Performance based. One district in each State every two years.	Rs. 5.0 lakh every two years.
18	International exposure for technical knowledge enrichment to technical staff of Central and State Governments	Exposure visit for Hybrid Rice Technology to China and for SRI to Madagascar	Rs. 1.0 crore for 11th plan period.
19	Miscellaneous Expenditure		Full cost
	(a) Project Management Team and other miscellaneous expenses at <b>district level</b>		Rs. 6.36 lakh per district per year
	(b) Project Management Team and other miscellaneous expenses at <b>State level</b>		Rs. 13.87 lakh per State per year
	(c) Miscellaneous expenses at <b>National level</b>		Rs. 84.56 lakh per year



## PATTERN OF ASSISTANCE FOR COMPONENTS OF NFSM-WHEAT

S. No.	Components	Description	Pattern of assistance
1	Demonstration of improved package of practices	Assistance for improved seed, balanced fertilizer, plant protection, weedicide. Target Area 13 million ha. One demonstration of 0.4 ha at every 50 ha area of wheat. Total number of demonstrations=2.6 lakh	Assistance @ Rs.2,000 per demonstration
2	Seed Replacement (33% SRR) over 13.0 million ha.	Target area 13 million ha. Desired SRR 33%. Total Seed required @100 kg ha seed rate for achieving 33% SRR in 13 m ha = 42.9 lakh Qtl.	Assistance @ Rs. 5 per kg or 50% of the cost, whichever is less
3.	Distribution of Seed Minikit	Target area 13 million ha. One seed minikit of 10 kg at every 50 ha. Total seed required for 1.3 lakh seed minikits=0.13 lakh Qtl every year	Full cost of the seed
4	Incentive for micro nutrients/ gypsum	Targeted area is 5 million ha i.e about 40% of the identified districts and 85% of the deficient area.	<b>In NFSM-Wheat</b> , the package assistance for micronutrients and gypsum will be 50% of the cost limited to Rs. 1,000/-per ha. The states will have flexibility as per the local needs to decide the respective share of gypsum and micronutrients in this package. However, the assistance for gypsum should not exceed Rs. 750/-per ha or 50% of the cost plus transport

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S. No.	Components	Description	Pattern of assistance
			cost, whichever is less. <b>For example</b> , if State seeks assistance for Gypsum @ 50% of the cost plus transport cost or Rs. 750/-per ha, whichever is less, then maximum assistance for micro-nutrients will be Rs. 250/-per ha or 50 % of the cost, whichever is less.
5	Zero till Seed drill/ Multi-crop Planters/ Seed Drills		Assistance @ 50% of the cost or Rs. 15000/- per machine, whichever is less
6	Rotavators		Assistance @ 50% of the cost or Rs. 30000/ per machine, whichever is less
7	Distribution of Sprinkler sets.		Assistance @ 50% of the cost limited to Rs. 7,500/-per ha, whichever is less.
8	Knap Sack Sprayers. (Manual and power operated)		Assistance @ 50% of the cost limited to Rs. 3,000/-per machine, whichever is less.
9	Pilot project on community generators for irrigation in shallow water table areas	Pilot basis	Rs. 5.0 crores (full cost)
10	Incentive for pumpsets	70000 pumpsets	Assistance @ 50% of the cost or Rs. 10000 per pumpsets per farmer, whichever is less
11	Farmers Training on FFS pattern	One FFS at every 1000 ha area of targeted districts. Total FFSs=0.13 lakh	Assistance @ Rs.17000 per training
12	International Exposure visit of technical staff	To CYMMIT, Mexico for resource conservation technologies	Assistance @ Rs1.0 crore entire 11th plan period

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S. No.	Components	Description	Pattern of assistance
13	Awards for best performing districts	Performance based. One district in each State every two year	Rs. 5.0 lakh every two years.
14	Assistance for local initiatives	Project basis	Rs 2.0 crore per district during XIth Plan period for those districts which have two or more components of NFSM and Rs. 1.0 crore per district during XI Plan period to those districts which have only one component of NFSM
15	Miscellaneous expenses		Full cost
	(a) Project Management Team and other miscellaneous expenses at <b>District level</b>		Rs. 6.38 lakh per district per year
	(b) Project Management Team and other miscellaneous expenses at <b>State level</b>		Rs. 13.87 lakh per State per year
	(c) Miscellaneous expenses at <b>National level</b>		Rs. 84.56 lakh per year



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## PATTERN OF ASSISTANCE FOR COMPONENTS OF NFSM-PULSES

Sl No.	Components	Implementing agency	Pattern of assistance
1	Seed		
	Production of Breeder seed of pulses	ICAR /IIPR	Lump sum grant of Rs 2.0 crores/year on project basis.
	Purchase of Breeder seed of pulses from ICAR	State Departments of Agriculture/ NSC/SFCI/ KRIBHCO/NAFED/IFFCO/ State Seed Corporations.	Full cost as per uniform rates fixed by Seeds Division, DAC, Ministry of Agriculture
	Production of Foundation and Certified seeds of pulses	State Departments of Agriculture/NSC/SFCI/ KRIBHCO/NAFED/IFFCO/ State Seed Corporations.	Rs 1000/qlt each for Production of FS and CS
	Distribution assistance on certified seeds	State Departments of Agriculture/NSC/ SFCI/ KRIBHCO/NAFED/IFFCO/ State Seed Corporations/ Seed producing agencies in private and cooperative sectors.	50% of the cost or Rs 1200/qlt, whichever is less.
	Strengthening of state seed certification agency	State Departments of Agriculture.	Rs 25.00 lakhs/state/annum
2	Integrated Nutrient Management (INM)	State Departments of Agriculture or such agency as may be decided by Executive Committee of NFSM.	50% of the cost or Rs 1250/- per ha, whichever is less i.e. Rs.750/- per ha for lime/ gypsum and Rs.500/- per ha for micro nutrients.
3	Integrated Pest Management (IPM)	State Departments of Agriculture or such agency as may be decided by Executive Committee of NFSM.	50% of the cost or Rs 750/- per ha, whichever is less.

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Sl No.	Components	Implementing agency	Pattern of assistance
4	Distribution of sprinkler sets	State Departments of Agriculture or such agency as may be decided by Executive Committee of NFSM.	50% of the cost or Rs 7500/- per ha, whichever is less.
5	Zero Till seed drills / Multicrop Planters / Seed Drills		Assistance @ 50% of the cost limited to Rs. 15,000/-per machine, whichever is less.
6	Rotavators		Assistance @ 50% of the cost limited to Rs. 30,000/-per machine, whichever is less.
7	Incentive for Pumpsets		Assistance @ 50% of the cost limited to Rs. 10,000/-per machine, whichever is less.
8	Knap Sack Sprayers. (Manual and power operated)		Assistance @ 50% of the cost limited to Rs. 3,000/-per machine, whichever is less.
9 a	Training	IIPR, Kanpur	<ul style="list-style-type: none"> <li>Infrastructure development for training on pulses at Indian Institute Pulses Research, ICAR, Kanpur including imparting training to trainers/farmers - Rs 1.0 crore per year.</li> </ul>
b	Training of Farmers on FFS pattern	State Department of Agriculture	<ul style="list-style-type: none"> <li>Farmers training on the pattern of Farmers Field School @ Rs 17000/ha -one training of 30 farmers for entire crop season at every 1000 ha.</li> </ul>
c	Training of Trainers	State Dept. of Agriculture	<ul style="list-style-type: none"> <li>State level training for trainers and extension workers. 50 participants for two days @ Rs. 1.0 lakh per training.</li> </ul>
10.	Award for best performing district	State Dept. of Agriculture	Rs 5.0 lakh every two years.

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Sl No.	Components	Implementing agency	Pattern of assistance
11	Pilot project/projects on tackling the menace of blue bull (Neel Gai)	State Departments of Agriculture.	Funding on project basis
12	Demonstration of technologies and practices developed by ICRISAT to enhance productivity and production of pulses	ICRISAT	Funding on project basis
13	Miscellaneous Expenditure		Full cost
	(a) Project Management Team and other miscellaneous expenses at <b>district level</b>		Rs. 4.47 lakh per district per year
	(b) Project Management Team and other miscellaneous expenses at <b>State level</b>		Rs. 6.28 lakh per State per year
	(c) Miscellaneous expenses at <b>National level</b>		Rs. 88.40 lakh per year



## DUTIES OF CONSULTANTS AND TECHNICAL ASSISTANTS ENGAGED AT NATIONAL, STATE AND DISTRICT LEVEL

National Food Security Mission in operation in 17 States has a provision for engaging State Consultants, District Consultants and Sr. Technical Assistants. Many states have already made appointments. It has however been observed that the State Mission Directors are not very clear about the role of technical man power support provided under the Mission. The following Guidelines may be followed :

### NATIONAL CONSULTANTS:

**A. Qualification: As prescribed in NFSM guidelines.**

**B. Duties:**

#### Consultants:

- To provide technical guidance to the mission director on matters related to interventions proposed in the mission.
- To develop standardized formats for submission of action plans
- To assist state in planning, formulation of NFSM action plans, whenever required.
- To provide technical assistance to NFSM staff in scrutinizing the action plans received from the states.
- To Establish time-lines and indicators for completion of each activity
- To supervise the quality of implementation of various interventions proposed in the mission for improving the production of rice, wheat and pulses.
- To assist mission director in synchronizing and synergizing with other divisions of DAC; state governments; State agriculture Universities; ICAR research institutions and other stake holders on technical front.

- To constitute teams for monitoring the progress of works in the states and provide technical guidance to them in conducting Monitoring and evaluation.
- To coordinate the work of State Project Management Team and District Management Team.
- To visit the states periodically to provide technical guidance and impart knowledge about best practices.
- To assist in the conduction of specific central and regional work shops
- To analyse the data received from various states and to come up with suggestions wherever improvements are required in the execution of the activities.
- Documentation and dissemination of success stories.
- To render overall direction to the technical staff working in the cell.
- To perform other tasks specified by the Mission Director.

### SENIOR TECHNICAL ASSISTANTS:

**A. Qualification: As prescribed in NFSM guidelines.**

**B. Duties:**

- To procure, compile and analyse the state wise data relating to the proposed interventions of the mission activities.
- To maintain relevant records/ file and data of the various mission activities.
- To assist in developing uniform formats for submission of action plans; monitoring and evaluation formats.



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- To scrutinize the action plans for the interventions proposed.
- To undertake field visits to assess the progress of the mission activities.
- To assist senior officers of the NFSM cell on all technical matters.
- To undertake other works assigned by the mission director from time to time.

#### STATE CONSULTANTS:

##### C. Qualification: As prescribed in NFSM guidelines.

##### D. Duties:

1. Liaisoning with SAUs, ICAR Institutes & Commodity Directorates.
2. Identification and delineation of acid/alkali soils in the state.
3. Updating of package of practices of mandated crops and making the same available to the state/ districts.
4. Assessment of requirement of inputs for the state based on targets approved by GOI.
5. Development of training material and activity schedule for FFS.
6. Planning of field demonstrations and supervision of the same.
7. Analysis of yield advantage attributable to improved practices/technology with due consideration to seasonal weather conditions, incidence of pest and diseases, soil conditions etc and reporting the same to the State Mission Director.
8. Training of field staff engaged in NFSM work.
9. Identification of promising crop varieties/hybrids of the mandated crops for the state.
10. Development of seed rolling plan for NFSM districts in consultation with SAUs, State Seed Corporation & State Department of Agriculture.

11. Making available technical information required by National Level Monitoring team during its visit to the state.

12. Development of technical literature/extension materials for farmers.

#### DISTRICT CONSULTANTS:

##### A. Qualifications: As prescribed in NFSM guidelines.

##### B. Duties:

1. Liaisoning with KVK and other Agricultural Research Organisations located in the districts.
2. Collection and maintenance of basic Agricultural and allied statistics of the district.
3. Planning and supervising conduction of field demonstration and FFS and reporting yield, weather data to the State Mission Director/State Consultant.
4. Development of technical/extension material for farmers in consultation with District Agricultural Officer and the State Consultant.
5. Assessing input requirement of the district for NFSM programme.
6. Training of district extension staff in improved crop production practices with emphasis on mandated crops.

#### TECHNICAL ASSISTANTS:

##### A. Qualifications: As per guidelines.

##### B. Duties:

1. Conduction of field demonstrations with the help of panchayat level field extension functionaries.
2. Assisting Consultants in performance of duties assigned to them at State/Districts level.
3. Monitoring of crop condition, major incidence of insect/pest, nutrient deficiency and reporting to the District Consultant.