

## **OPERATIONAL GUIDELINES ON SUB-MISSION ON SEEDS AND PLANTING MATERIAL**

### **(SMSP) UNDER NATIONAL MISSION ON AGRICULTURAL EXTENSION AND TECHNOLOGY (NMAET)**

#### **1. INTRODUCTION :**

Agriculture and allied sector accounts for 14% of the country's GDP, 13% of overall exports and provides employment to over 50% of the work force in the country. Being both a

source of livelihood and food security for a vast majority of the population, its performance

assumes great significance for poverty reduction and gender equality. In order to achieve this

objective, various schemes & programmes have been launched by the government with emphasis on improving farm productivity, enhancing agricultural research, education and

extension enabling development, infusion of appropriate technologies and improving the conditions of farming community on sustainable basis.

The production of foodgrains during 2012-13 was at **255.36** million tonnes, comprising of **128.20** million tonnes during Kharif season and **127.16** million tonnes during the Rabi season. Of the total foodgrains production, production of cereals was **236.92** million tonnes

and pulses **18.45** million tonnes.

A Central Sector Scheme 'Development and Strengthening of Infrastructure Facilities for Production and Distribution of Quality Seeds' is being implemented on all India basis from

the year 2005-06 aiming at ensuring production and multiplication of high yielding certified/quality seeds of all crops and making them available to the farmers. Although the

existing scheme has contributed in doubling the availability of quality seeds in the country

during the last 5 years, a need has been felt to upgrade and expand the existing scheme into

a Mission mode in order to include new/emerging technologies in production of quality/certified seeds, improve seed testing laboratories, support seed producing agencies

in adopting new seed producing technologies etc. It will improve the availability of quality

seeds to the farmers and at a reasonable price in a time bound manner.

Accordingly, during the XII Plan, a Sub-Mission for Seed and Planting Material (SMSP) under National Mission on Agricultural Extension and Technology (NMAET) will be implemented. SMSP will cover the entire gamut of seed production chain, from production of

nucleus seed to supply of certified seeds to the farmers, to provide support for creation of

infrastructure conducive for development of the seed sector, support to the public seed producing organisations for improving their capacity and quality of seed production, create

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dedicated seed bank to meet unforeseen circumstances of natural calamities, etc. The other

Central Sector Scheme implemented by Seed Division, viz., Implementation of PVP Legislation has also been subsumed under the SMSP.

## **2. MISSION TARGETS**

- Increasing production of certified/ quality seed
- Increasing SRR more particularly to achieve higher SRR in crops like paddy, gram, groundnut, cotton etc. As follow-up of the recommendations of Consultative Group of the Ministry of Agriculture, the increase in SRR is proposed below:-

(Quantity in lakh quintal)

### **No. Type Existing SRR Proposed SRR**

1 Self-pollinated crops 25% 33%

2 Cross-pollinated crops 33% 50%

3 Hybrids 100% 100%

- Upgrading the quality of farm saved seeds with specific objective to cover 10% villages and produce 100 lakh quintals of seed each year through farmers participatory seed production.
- Encouraging seed treatment particularly for farm saved seed.
- Strengthening the seed multiplication chain through assistance to public and private sector.
- Popularizing new varieties to encourage varietal replacement.
- Promoting new technologies and methodologies in seed production, processing, testing etc.
- Strengthening and modernizing infrastructure for seed production, storage, certification and quality control particularly to ensure compliance with the provisions of the Seeds Bill 2004/ISTA standards, OECD certification.
- Facilitating movement of seed from India in international trade and increase its share to 10% by 2020 as envisaged in the new policy on seed development.
- Assisting and supporting public and private seed producing organizations in seed sector and encourage partnerships.
- Ensuring availability of seed in contingent situations.

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- Facilitating dissemination of seed related information through information, education and communication.
- To provide an effective system for protection of plant varieties, the rights of farmers as well as plant breeders and to encourage the development of new varieties of plants, through PPV&FRA.

## **4. FUNDING PATTERN**

### **4.1 Mechanism of Fund Flow:**

Some of the components under the SMSP are existing/ upgraded version of ongoing schemes with 100% Government of India Share. New components have been added mostly with 75% Central: 25% State share.

Annual Action Plans of States/Implementing Agencies will be approved by the

Executive Committee on Seeds (ECS). ECS should also decide the allocation of funds to the States/ Implementing Agencies based on the approved Annual Action Plan. The release of funds shall be done by the DAC and routed through respective State Governments which may transfer funds to designated implementing agencies along with the State share of funds. However, funds under PPP project would be released as under:

- i) First Installment on completion of 25% of project----- 15% of the approved subsidy.
- ii) Second Installment on completion of 50% of project----- 20% of the approved subsidy.
- iii) Third Installment on completion of 75% of project----- 25% of the approved subsidy.
- iv) Fourth Installment on completion of 100% of project----- 30% of the approved subsidy.

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- v) Fifth Installment on completion of one year of operation of project----10% of the approved subsidy.

The States would ensure implementation of the programmes, in a time bound manner and would make funds available to the implementing agencies in accordance with their approved programmes. Funds would be released based on the progress reports and submission of utilization certificates.

The implementing agencies will submit the utilization certificate to the State, which will be compiled and a consolidated utilization certificate, duly authenticated by the State Level Seed Mission Executive Committee (SLEC) will be submitted to the Ministry of Agriculture, for further releases. No amount shall be released to any State Government which defaults in furnishing utilisation certificates and physical progress reports for grants-in-aid released by the Central Government. The unspent balance available with the States and implementing agencies have to be taken into account before further releases are made.

Implementation agencies must ensure that activities undertaken are within funds released by GOI and corresponding state share.

*The utilisation certificate shall be submitted in the following prescribed proforma as per GFR -19.*

#### **4.2 Procedure for approval :**

The Department of Agriculture & Cooperation, Government of India would communicate the tentative annual outlay to each State. States could engage the technical consultants for preparing the State Seed Plans. The State Level Agency will get the State Seed Plan approved by the State Level Seed Mission Executive Committee and furnish the same to the Ministry of Agriculture for consideration by the ECS. However, proposals by national level agencies like NSC, SFCI and also for agencies/components to be funded directly by GOI will be submitted directly to Ministry of Agriculture for consideration by ECS. The implementing agencies shall ensure extensive use of the Aadhaar number, other documents, for identification of beneficiaries and maintaining data under the Sub-Mission.

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### **5. MONITORING, REPORTING AND EVALUATION**

#### **5.1 Monitoring :**

Close monitoring of the physical and the financial targets of various program interventions would be done by the SMMC. A format for monitoring of the implementation of the scheme will be made online with the help of NIC. It will be the responsibility of the SLEC to furnish the information in prescribed format within stipulated time. 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 etc.

#### **5.2 Reporting System**

Apart from furnishing online report, detailed Progress Report should be sent to the Ministry of Agriculture for each quarter followed by Annual Progress Report alongwith UC. Illustrative format appended with the guidelines could be modified later on as per emerging needs.

#### **5.3 Evaluation**

A baseline survey will be conducted by engaging a third party on project basis. Concurrent evaluation will be done every year to assess the performance of the scheme in terms of its objectives.

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. An Impact Evaluation Study at the National Level will also be undertaken through an independent agency before the last year of implementation to assess the impact of the SMSP in achieving its objectives.

Information Communication Technology (ICT) will be used for monitoring and evaluation of the Mission. Specialized tool/format/ software for the monitoring and evaluation of the Mission's activities would be developed.

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## **6. ROLE OF PANCHYAT RAJ INSTITUTION:**

The State Governments may have in place a sound mechanism for involvement of PRIs in the formulation, prioritization of activities & identification of beneficiaries at grass root level and ensure involvement of Panchayati Raj Institutions for various subcomponents

under SMSP. An illustrative Activity Mapping for involvement of PRI is given below:

**Activity**

**Category**

**Union Govt. (MOA,**

**DAC)**

**State Government District**

**Level**

**LOCAL GOVERNMENTS AND**

**PLANNING BODIES**

**Panchayati Raj System**

**Distt.**

**Panchayat**

**Intermediate**

**Panchayat**

**Village**

**Panchayat**

**Setting**

**Standard**

**Formulation and**

circulation of  
guidelines for  
implementation.

Constitution of State  
level Committee  
headed by APC/PSA  
to decide the priorities,  
consider Annual Action  
Plan (AAP) and to  
review the progress of  
SMSP of NMAET.

Constitution of a Project Management  
Team at District level in consultation with  
PRI.

Implementation Release of funds  
against the  
approved AAPs.

Release of funds to  
State Department of  
Agriculture / NSC /  
SSCs / SSCAs &  
SAUs.

Identification of areas of seed production in  
consultation with PRIs.

Operation &  
Maintenance  
Review of  
physical and  
financial progress  
by Mission

Monitoring  
Committee at  
National level.

Coordination and  
convergence with the  
Line Department/  
Agencies.

Prioritization of resources for construction of seed storage, establishment of seed processing units, loading & unloading of seeds, processing & packing activities, fumigation & spraying etc. (wherever labour work involved through the Gram Panchayat institutions and their maintenance.

Monitoring &

Evaluation

Monitoring by the

Project Monitoring

Committee.

Reporting of progress

through quarterly

progress report.

Involvement of PRI in

review of progress of

implementation and

feedback about the

programme.

Social Audit by

Gram Sabha.

**7. AREA OF OPERATION:** All the components of the SMSP will be implemented in all states/ UTs of the country. Sub-components of PPV&FRA will be implemented by itself.

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## **8. MISSION INTERVENTIONS:**

**8.1 Strengthening of Seed Quality Control (Share 100% GOI, except 8.1.2 where 75%**

**GOI and 25% State):** The strengthening of Seed Quality Control System covers the following aspects:

### **8.1.1 Seed Testing Laboratories:**

Seed Testing Laboratories of Departments of Agriculture of State Governments/UTs, State Seeds corporations, State Seed Certification Agencies, NSC, SFCl, Cooperative and Notified Lab of State Agricultural Universities shall be eligible for financial



assistance as per details given below:

#### **8.1.1.1 Equipments for Seed Testing Laboratories**

The financial support available in the scheme for laboratory equipments shall not exceed Rs.60 lakh per laboratory. Details of equipments and estimated cost involved therein for handling approximately 10,000 samples per year in a laboratory are given at **Annexure-I**. However, the financial support will be available on the actual cost basis which should not exceed the earmarked amount of Rs. 60.00 lakh.

#### **8.1.1.2 Renovation of Seed Testing Laboratory:**

The total estimated cost for renovation of a seed testing laboratory with capacity of 10,000 seed samples with area of 250 Square meters is Rs. 20.00 lakh. Financial Assistance of Rs. 10.00 lakh for civil work, Rs.3.00 for electrical work, Rs.3.00 lakh for water supply and Rs. 4.00 lakh for other miscellaneous work will be provided for one seed testing laboratory, as per the requirements.

#### **8.1.1.3 Equipments for DNA Finger Printing / Varietal Purity-Testing Laboratory**

Financial assistance of Rs.70 lakh will be available for DNA finger-printing facility at one notified seed testing laboratory in a State/UT for determining genetic purity of seed samples. A list of equipments along with cost for setting up of a DNA fingerprinting facility is at **Annexure-II**. However, the financial support will be available on the actual cost basis which should not exceed the earmarked amount of Rs. 70.00 lakh.

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#### **8.1.1.4 Specialised seed health testing units**

An amount of Rs. 55.00 lakh will be available to establish/strengthen one specialized seed health testing laboratory under the Sub-Mission. The detail of the facilities to be supported is at **Annexure III**. However, the financial support will be available on the actual cost basis which should not exceed the earmarked amount of Rs. 55.00 lakh.

#### **8.1.1.5 Payment of ISTA fee**

Financial assistance of Rs.15 lakh will be available to the maximum 5 Seed Testing Laboratories functioning under NSRTC, State Government/Union Territories, Seeds Corporations, and Seed Certification Agencies to obtain / running the membership of International Seed Testing Association (ISTA). Assistance up to Rs. 5.00 lakh for

membership and up to Rs. 10.00 lakh for technical audit per laboratory will be provided. Total Rs.15.00 lakh for maximum 5 STL per annum i.e. Rs. 15 lakh x 5 STL x 3year = Rs. 2.25 crore but maximum provision of Rs. 1.80 crore lumpsum).

### **8.1.2 Strengthening of Seed Law Enforcement:**

Department of Agriculture of State / UT are eligible for Financial Assistance for reimbursement

of cost of seed sample @ Rs. 10.00 lakh, Travelling Allowance for notified seed inspectors of Seed Law Enforcement Authority (as per the admissible rate) for Rs.3.00 lakh per State and for creation of awareness through printing and distributing the books and pamphlets on seed quality @ Rs.2.00 lakh per State per year. Financial Assistance will be available up to 75% from Central share and 25% from the state share.

### **8.1.3 Support to the National Seed Research and Training Center (NSRTC):**

An amount of Rs. 12.00 crore will be provided to NSRTC for salary wages, maintenance of facilities and other routine activities and administrative expenditures for 3 years. An amount of Rs. 15.00 lakh per annum will be earmarked for organizing the National Seed Congress. An amount of Rs.2.00 lakh will be provided for training/workshop of 25 officials for 5 days training course. The breakup of admissible expenditure on training is at **Annexure – IV**.

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#### **8.1.3.1 Development of Centralised Seed Certification Portal at NSRTC**

In order to establish a Centralized Seed Certification Portal at NSRTC for giving linkage to the 25 State Seed Certification Agencies, Financial Assistance will be provided for development of software and hardware @Rs. 20.00 lakh per State Seed Certification Agency (25.00 X 20.00 lakh = Rs.5.00 crore) and 4.00 crore to NSRTC.

#### **8.1.4 Training and workshop**

Training on seed related activities will be provided to the officials of State Government, Seed Corporations, Seed Certification Agencies, Cooperatives, Private Sector, Seed Dealers and Farmers according to their needs. The concerned organizations may select the targeted persons for training. The financial assistance of Rs.2.00 lakh will be available for one training of 25 persons for 5 days training course. 74 trainings per

year for 28 States/ UTs will be imparted @ Rs. 2 lakh per training. This training will continue for three years.

### **8.1.5 Strengthening of Central Seed Committee (CSC) and Central Seed Board (CSCB).**

An amount of Rs.10.00 lakh per year may be provided for TA / DA for non-official members of CSC & CSCB and its sub-committees, Rs.5.00 lakh per year for Purchase of books, computers etc. for the technical staff, Rs.30.00 lakh per year for Payment of consultancy service for OECD consultant, Printing and publication of Compendium on seed Rs.25.00 lakh per year for Membership of International Organizations / Associations like OECD, ITPGFRA etc. and Rs.25.00 lakh per year for participation in international meetings, foreign travels etc. for attending meetings, trainings, seminars, conferences etc.

### **8.2 Strengthening of GOT facility (Share 100% GOI)**

This component covers two activities:

#### **8.2.1 Grow-out Test Farm.**

Departments of Agriculture of State Governments/UTs, Seeds Corporations, State Seed Certification Agencies, NSRTC and State Agriculture Universities shall be eligible for financial assistance for strengthening of GOT Facility. Financial assistance

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of Rs.50.00 lakh (no fund for purchasing for land) will be provided for strengthening of 5 hectare of GOT farm for the activities as under:

- (i) Essential civil works at site- sheds, stores, pump houses, workshop, road, fencing, electrification, drying platforms, threshing yards buildings etc. for the Center as a whole.
- (ii) Irrigation/drainage setup, pipelines, water tanks, slab channels etc.
- (iii) Land development, leveling, mapping, topography adjustments, bounding, plot lay out, etc.
- (iv) Mould board plough, disc harrow, tillers, levelers, rigger, bund former and such other

implements/farm machinery, essential tools for repair and maintenance with trolley.  
Tractor 35 HP-1 etc.

(v) Mobility for field visit.

The activity wise break up details are at **Annexure-V**.

### **8.2.2 Green House facility:**

An assistance of Rs.10 lakh will be available for establishment of Green House facility to the eligible organizations. The detailed break-up of establishment of a Green house is at **Annexure-VI**.

### **8.3 Support to Seed Certification Agencies (Share 25% GOI and 75% State)**

Seed certification agencies established under Seeds Act, 1966 shall be eligible for financial assistance. The SCAs will be assisted under following three components for which 25% from Central share and 75% from State share will be provided.

#### **8.3.1 Assistance for the Staff cost**

The 25% central share for staff salary up to a maximum limit of Rs.50.00 lakh, per agency, per year will be provided. The central assistance will be available for only the staff which are involved in seed management; field inspection; sampling; analysis; monitoring; evaluation, certification and pre and post harvesting supervision etc. Primary responsibility of payment of staff salary shall remain with Seed Certification Agency.

#### **8.3.2 Travelling allowance:**

For effective conduct of inspection, analysis and certification activities, the mobility of staff through jeep and motor cycle is proposed based as one for every 800 hectare  
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and 400 hectare respectively which is average of last three years for each SCA. The Mission will bear 25% of the total cost of travelling allowance for each SCA subject to maximum limit of Rs. 10.00 lakh per agency per year.

#### **8.3. 3 Office Automation & Communication facility**

Financial assistance will be available to each seed certification agency for supporting Office automation & Communication facility up to Rs.50.00 lakh per SCA for the entire Mission period. The financial assistance will be considered on case to case basis for the following component as per requirement:

- Office automation;
- Computerization;
- Purchase of equipment including cameras; machines for printing of tag;
- Information systems;
- Communication systems;

#### **8.4 Seed Treatment (Share 75% GOI and 25% State)**

State Government, Seed Corporations, and Cooperative shall be eligible for financial assistance under this. Assistance will be available up to 75% of the cost as subsidy for cost of seed treatment @ Rs.100.00 per Qntl. of seeds. The maximum central assistance permissible for one agency per year will be Rs.20 lakh. The costs are suggestive and can be revised by the Department of Agriculture & Cooperation, Government of India as per requirement to retain dynamism and flexibility.

#### **8.5 Promotion of seed export (Share 100% GOI)**

Agri-business institution/enterprise with international trade expertise will be eligible for assistance under the project. Modalities for selection of the firm will be decided by the ECS. However, rate of assistance would be as under:

8.5.1 Assistance of freight charges from seed store/ware house to port of exit @30% of the actual cost subject to maximum of Rs.3.00 lakh per beneficiary (20 units).

8.5.2 Assistance to exporter/producer/growers for set up of seed conditioning unit for conditioning the seeds for export including controlled storage unit @40% of the actual cost subject to maximum of Rs.10.00 lakh per beneficiary (19 units).

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8.5.3 Up-gradation of Seed Testing Laboratory upto the ISTA Standard to issue the orange certificate for international seed trade @25% of the actual cost subject to maximum of Rs.5.00 lakh per beneficiary (10 laboratories).

#### **8.6. Support for R & D, Contract Research and acquisition of new varietal product (Share 60% GOI and 40% State)**

Seed Corporations and other seed producing agencies in the public sector are eligible to avail the assistance as under:

The eligible organizations will prepare a project for acquisition of new varietal product, technology, Contract Research, setting up of R&D Unit and submit to the Seed

Division of DAC. The central share of assistance for such project will be limited to 60% subject to maximum of Rs.1.15 crore. The beneficiary institute has to provide the detailed financial backup of remaining 40% of the project cost. The proposal for assistance will be decided by the ECS.

**8.7 Strengthening of Seed Farm (Share 75% GOI and 25% State) :** The 75% financial

assistance, subject to maximum project cost of Rs.80.21 lakh including State share will be provided to by GOI to implementing agencies for each farm.

**8.7.1 Renovation of Staff Quarters including office building etc. :** Financial assistance

of Rs.5.00 lakh will be provided for renovation of Staff Quarters including office building etc. for each farm

**8.7.2 Repairing of internal roads**

Financial assistance of Rs.3.00 lakh will be provided for repairing of internal road etc. for each farm.

**8.7.3 Repair, purchase of Farm Machinery & Equipments etc. :** Financial assistance of

total Rs.11.00 lakh will be provided for repair, purchase of farm machinery & equipments etc. as per cost norms for each farm

**8.7.4 Machinery and equipments sheds :** Financial assistance of total Rs.3.00 lakh will be

provided for construction of farms sheds, machinery & equipments etc. for each farm

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**8.7.5 Threshing Floor:** Financial assistance of total Rs.3.65 lakh will be provided for construction /repairing of threshing floor @ Rs.730/sq. meter to a maximum of 500 sqm. for each farm

**8.7.6 Seed Processing Plant:** Financial assistance of total Rs.14.00 lakh will be provided

for establishment of Seed Processing Plant of 200 MT capacity including Building (Rs.9.80 lakh), approach road (Rs. 2.20 lakh), Drainage (Rs.2.00 lakh).

**8.7.7 Seed Processing Machinery/supporting equipments etc. :**Financial assistance of

total Rs.7.56 lakh will be provided for Seed Processing Machinery/supporting equipments etc. for each Farm

**8.7.8 Seed Storage Godown :** Financial assistance of total Rs.10.50 lakh will be provided

for Pre fabricated /or other type of Seed Storage Godown of 200 MT capacity for each Farm.

**8.7.9 Irrigation Facilities:** Financial assistance of Rs.5.00 lakh for development of irrigation

facilities will be provided as under–

a) Shallow tube well (70-80 feet) Rs.1.50 lakh

(b) Medium tube well(40 meter) Rs.3.00 lakh

(c) Deep tube well(75 meter) Rs.3.90 lakh

**8.7.10 Irrigation underground High Density Polythene (HDP) Pipeline :** Financial assistance of total Rs.7.50 lakh maximum will be provided for Irrigation underground HDP Pipeline etc. for each farm.

**8.7.11 Drip & Sprinkler Irrigation Facilities:** Financial assistance for Drip and Sprinkler

Irrigation facilities will be provided as per National Mission on Micro Irrigation (NMMI) cost norms or actual, whichever is less upto a maximum of Rs.10.00 lakhs.

## **8.8 Seed Village Programme (Share 100 % GOI)**

### **8.8.1 Distribution of Seeds :**

**8.8.1.1 Cereal crops:** 50% assistance will be provided for distribution of foundation / certified seeds required for 1 acre area per farmer for cereal crops.

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**8.8.1.2 Pulses, Oilseeds, Fodders and Green Manure Crops :** Financial assistance @

60% cost of foundation/ certified seeds of pulses, oilseeds, Green Manure & Fodder crops etc. required for 1 acre area per farmer will be provided.

**8.8.2 Farmers' Trainings** : Financial assistance of Rs.15000 per group (50-150 farmers

each group) will be provided for farmers training on seed production and post harvest seed technology (Rs.0.15 lakh)

**8.8.3 Seed treating/dressing drums** : Financial assistance for treating seeds produced in

the Seed Village will be available @ 3500 per seed treating drum of 20Kg capacity and Rs. 5000 per drum of 40Kg capacity.

**8.8.4 Seed Storage bins:** To encourage farmers to develop storage capacity of appropriate

quality, financial assistance will be given to farmers for purchasing Seed Storage bins. The rate of assistance will be as under.

@33% for SC/ST farmers for 10 qtls. capacity upto maximum of Rs.1500

@33% for SC/ST farmers for 20 qtls. capacity upto maximum of Rs.3000

@25% for General farmers for 10 qtls. capacity upto maximum of Rs.1000

@25% for General farmers for 20 qtls. capacity upto maximum of Rs.2000

Assistance for purchase of only one seed bin for each identified farmer will be available in the seed village. The implementing agency may also distribute smaller size of seed bins as per demand of farmer and financial assistance will be reduced accordingly.

## **8.9. Certified Seed Production through Seed Villages (Share 75% GOI and 25% State)**

**8.9.1 Production of seeds:** 75% financial assistance will be provided for production of certified seeds in 1 acre per farmer for pulses, oilseeds, fodder and green manure crops.

**8.9.2 Seed certification charges:** Financial assistance @50% of seed certification actual

charges or maximum of Rs.600/ha whichever is less. (Rs.0.60 lakh for 100ha. area) will be provided.

**8.9.3 Farmers Trainings** : Financial assistance @ Rs.15000 per groups (of 50-150 farmers



each groups) will be provided for farmers training on seed production and post harvest seed technology.

**8.9.4 Seed processing and seed storage godowns:** Assistance to establish seed processing and prefabricated or other type of seed storage godowns 150 sqm. @

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Rs.10000 per sqm. to process and store 200 Mt capacity will be available for each seed village

**8.9.5** Financial assistance of Rs.7.56 lakh will be provided for seed processing machinery

and supporting equipments.

#### **8.10. Seed Processing Plant (Share 100 % GOI)**

**8.10.1 Establishment of Seed Processing Plants :**Grants-in-aid will be provided according

to modular design of 1000 MT, 2000MT, 3000 MT, 4000MT and 5000MT annual capacity of seed processing. The grant shall be available at the following rates:

**(Costs Rs. In lakh)**

**Annual Capacity**

**(in Ton )**

**Cost of Main**

**Equipment**

**Cost of**

**Supporting**

**Equipment**

**Total Cost**

1000 27.9 9.90 37.80

2000 32.90 10.10 43.00

3000 47.10 13.90 61.00

4000 56.20 20.70 76.90

5000 62.80 21.30 84.10

**8.10.2 Construction of building, receiving shed, drying platform, etc:** Financial assistance for construction of building required for Seed processing plant and other

supporting structure will be provided as under:

**Annual**

**Capacity of**

**plant (Ton)**

**Plant building and**

**receiving shed**

**Drying Platform**

**Grand**

**total**

**(Rs. In**

**lakh)**

**Size**

**(sqm)**

**Rate**

**(Rs/Sqm)**

**Total**

**cost**

**(Rs in**

**lakh )**

**Size**

**(sqm)**

**Rate**

**(Rs/Sqm)**

**Total**

**cost**

**(Rs in**

**lakh)**

1000 450 7000 31.50 100 1200 1.20 32.70

2000 525 7000 36.75 200 1200 2.40 39.15

3000 700 7000 49.00 300 1200 3.60 52.60

4000 800 7000 56.00 400 1200 4.80 60.80

5000 1000 7000 70.00 500 1200 6.00 76.00

The implementing agency will have the flexibility to establish / seed processing unit of desired capacity as assessed by them and financial assistance will be provided on prorata basis

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### **8.11. Seed Storage (Share 100% GOI)**

**8.11.1 Seed Storage :** The financial assistance towards cost of construction for various type

of seed storage godowns including pallet/ racks, cover, sprays, dusters etc. required for safe storage of seeds will be provided as under.

#### **Particulars Capacity**

**(MT)**

**Size**

**sqm**

**Rate**

**(Rs/Sqm)**

**Total cost**

**(Rs. in lakh)**

Store with AC/ GI sheets 1000 700 7000 49.00

Ventilated Flat roof stores 1000 700 7500 52.50

Dehumidified store 100 100 14000 14.00

Air conditioned &

dehumidified store

100 100 18000 18.00

### **8.11.2. Modernization/ Strengthening of existing Seed Storage**

Financial assistance for modernization of existing Asbestos Sheet stores / ventilated flat roof stores, to dehumidified or to air conditioned & dehumidified stores will be provided at a differential cost @ Rs. 6500 per sqm. and Rs. 10500 per sqm. respectively.

The grants-in-aid @ Rs. 4000/- sqm. will also be provided for modernization of dehumidified storage to the level of air conditioned and dehumidified stores. The

implementing agency will have the flexibility to establish /strengthen/modernize seed stores of desired capacities / capacity as assessed by them as per given modular pattern and financial assistance will be provided on pro-rata basis

### **8.12. Transport Subsidy (Share 100% GOI)**

The topographic and the climatic conditions in North Eastern States including Sikkim, J&K, Himachal Pradesh, Uttarakhand and hilly areas of West Bengal are not conducive for seed production. Therefore, to ensure availability of certified/quality seeds to the farmers of identified States at affordable price, this component has been initiated. Only certified/ quality seeds of cereals, oilseeds, pulses, fibres, vegetable seeds and fodder crops shall be eligible for subsidy under the scheme. Potato seed tuber and spices are excluded from the purview of this scheme.

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#### **8.12.1 Movement of Seeds from outside the States :**

100% difference between road and Rail transportation charges will be reimbursed to the implementing States/ Agencies for Movement of Seeds produced outside the States and moved to these identified States Capital / district head quarter.

#### **8.12.2 Movement of Seeds with in the States :**Actual cost restricted to maximum limit of

Rs.120 per qtls. whichever is less for movement of seeds transported within the State from States Capitals / District Head Quarters to sales outlets /sale counters will be reimbursed to the identified States.

### **8.13. Assistance for Maintenance of Breeder Seed (Share 75% GOI and 25% State):** The

financial assistance (Recurring and Non recurring) will be provided to implementing agencies for maintenance breeding of nucleus seeds for further multiplication into breeder seeds of various agricultural crops.

Under this component infrastructure support, both recurring and non-recurring, will be provided to SAUs for maintenance breeding of nucleus seed for further multiplication into breeder seed as per State indent for a three years period. SAUs will be supported for a maximum period 3 years. There are 40 State Agricultural Universities (SAUs) in India as on date with several farms with each University where production of nucleus

seed is taking place. Assistance will be provided to SAUs on case to case basis.

The details of the pattern of funding for a unit of 50 acres is given below:-

### **A. Non-Recurring Expenditure**

(i) Road works –Rs.3.25 lakh

(ii) Irrigation facilities-

- Bore well-Rs.5.00 lakh

- Shallow tube well (70-80 feet) Rs.1.50 lakh

- Medium tube well (40 meter) Rs.3.00 lakh

- Deep tube well (75 meter) Rs.3.90 lakh

- Underground HDP Pipeline

- 90 mm diameter @Rs.133.33/meter

- or 110 mm diameter @Rs.166.66/meter

or actual whichever is less ( no concrete channel, open drain)

- Drip/sprinkler irrigation facilities as per NMMI or actual whichever is less. –

Rs.5.00 lakh

(iii) Poly house –Rs.5.00 lakh

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(iv) **Seed Storage Facilities:** Financial assistance of Rs.10.50 lakh will be provided for construction of prefabricated or other type of seed storage godowns of 200 MT capacity.

(v) **Seed Processing Facilities :**Financial assistance of Rs.21.56 lakh will be provided for seed processing unit of 200 MT capacity including equipments, building approach road, drainage etc.

(vi) **Threshing Floor :** Financial assistance of Rs.2.00 lakh will be provided @Rs.730/sqm. or actual for construction of threshing floor

(vii) **Farm Implements :**Financial assistance of Rs.10.00 lakh will be provided for purchasing farm implements /machineries etc.

**Total Non Recurring Expenditure – Rs.74.31 lakh**

### **B. Recurring Expenditure**

**i. Assistance for inputs** i.e. seeds, fertilizers and chemicals etc. will be available @Rs.0.50 lakh per year- (Rs.1.50 lakh for 3 years)

**ii. Consumables** : Financial assistance of Rs.0.25 lakh per year will be provided for paper, clothes , polythene bags, butter paper, levels etc.- (Rs.0.75 lakh for 3 years).

**iii. Skilled labour** – assistance @of Rs.3500 per months for 8 skilled labours will be available- (Rs.10.80 lakh for 3 years )

**iv. Financial assistance for 2 Research associate** @Rs.12000+20% HRA will be provided per year. –(Rs.10.37 lakh for 3 years)

**v. Financial assistance of Rs.1.50 lakh** will be provided for monitoring of nucleus seed production programme for 3 years.

**vi. Miscellaneous expenditure** @Rs.0.25 lakh / year (Rs.0.75 lakh for 3 years)

**Total recurring expenditure –Rs.25.67 lakh**

**Grand total (Recurring and Non Recurring ) – Rs.99.98 lakh**

#### **8.14 National Seed Reserve (Share 100% GOI)**

**8.14.1 Participating Agencies:** National Seed Reserve (NSR) will be implemented by the

National Seeds Corporation, State Farms Corporation of India and State Seeds Corporations

Viz., APSSDC, ASC, BRBN, Chhattisgarh SSC, GSSC, HSDC, KSSC , MSSC, MPSS & FDC, OSSC , PSSC ,RSSC, UPSDC UKS & TDC , WBSSC, KSSDA, Government of Tamil

Nadu, and Jharkhand (Where SSCs are not in existence) will maintain the seed Reserve.

**8.14.2 Cost of Seeds (Revolving Fund):** It has been proposed that 100% of total procurement value of foundation and certified seeds will be given to the participating organizations in the form of revolving fund. The funds would be released to the participating

institutions according to the quantity of seeds allocated to be produced and maintained by

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them in the NSR. The revolving fund would be given to the implementing agencies as one

time assistance and implementing agency would be bound to maintain the NSR at least for 5 years regularly. After receiving the revolving fund from the Government of India, organization will keep a separate account of revolving fund and this fund will be recouped from the sale proceeds of seed from NSR every year.

**8.14.3 Maintenance Cost:** Maintenance cost pertaining to Processing charges, cost of packing material, labour costs involved in the packing, cost of certification will be provided to the implementing agency up to Rs.300 per qtls. subject to actual cost incurred on these items by the implementing agencies. Besides this, transportation cost incurred on seeds will also be provided to the storage point and handling cost at each stage of the seed movement up to Rs. 200 per qtls. subject to actual cost incurred by implementing agencies will be provided.

**8.14.4 Cost of Seed Storage Infrastructure:-** The Seed Storage Infrastructure will cover construction/enlargement of building, electrification, compound wall and internal-road. Financial assistance will be provided in the enlarged proportion based on the criteria fixed/ specified in the guidelines as under:-

**Particulars Capacity M.T. Size**

**Sqm**

**Rate**

**Rs./sqm**

**Total cost**

**(Rs. In lakh)**

Ventilated Flat roof

stores

1000 700 7500 52.50

- **Electrification-** @ 5% of cost of Rs. 52.50 lakh incurred on seed storage infrastructure for one location = Rs. 2.62 lakh

- **Compound wall & internal roads** - @ 5% of cost of Seed Storage infrastructure for one location i.e., = Rs. 2.62 lakh

Assistance will be released as per norms formulated by the Government of India. The expenditure, if any, over and the above the norms or the approved amount, will be borne by the concerned implementing agency. Costs of land, registration charges if any for the infrastructure will not be admissible. Under the Mission, Human Resources (HR) requirement for managing the infrastructure will be the responsibility of the concerned organization and no assistance will be available under the Mission.

The construction of seeds godown shall be as per the CPWD or State PWD specification or any other specification laid down in this behalf. The storage godown shall be properly ventilated, shall have well fitted doors; windows and ventilators and

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shall be waterproof (control of moisture from floor, walls and roof etc.). The seeds godown structure shall have protection from rodents (high pucca elevated platform with wooden staircase. The seeds godown shall have protection form birds (windows/ventilators with jali). The openings of the seeds godown such as doors, windows, etc. shall be designed in such a manner that the seeds godown can be sealed for effective fumigation. The seeds godown complex shall have an easy approach road, pucca internal roads, proper drainage, arrangements for easy loading and unloading of stocks.

**8.14.5 Cost of material handling equipment:** Financial assistance will be provided @ Rs.

50 per qtls to the implementing agency for purchasing of material handling equipment i.e., Lifters, fork lifters, mechanical stackers and heavy duty vacuum fumigation covers and pallets, which will be a onetime assistance and will be given on the basis of allotment of targets made to implementing agencies.

**8.14.6 Assistance for purchase of Machinery, plant building, receiving shed and drying**

**platform:** The maximum assistance to the implementing agencies will be given for



purchase of machinery upto the capacity of 3000 tonnes per annum at the place where NSR has been maintained. The financial assistance will be provided in the enlarged proportion based on the criteria fixed/specified and shall be available at the following rates:-

**Items Capacity ( in MT)**

**1000 2000 3000**

Equipment & Machinery cost (Rs. in Lakhs) 37.80 43.00 61.00

Size in sqm. @ Rs. 7000/sqm.

Plant building cost (Rs. in lakh)

450

31.50

525

36.75

700

49.00

Size in sqm. @ Rs. 1200/sqm.

Drying platform cost (Rs. in lakh)

100

1.20

200

2.40

300

3.60

**Total 70.50 82.15 113.60**

The equipment/machinery can be added/modifications made as per requirement and certified by the Department from time to time. Modernization and strengthening may require replacement of machinery as per the life span of the machines.

**8.14.7 Cost of services outsourced for fumigation, spraying, maintenance of dust free**

**environment staking, de-staking and other operations involving labour:-**

Maximum assistance upto Rs. 10 per qtl or actual amount incurred (whichever is less)

would be provided to the implementing agencies every year on the qty of seeds maintained by the implementing agency.

**8.14.8 Cost of condemnation /unfit seeds:** Due to non-disposal of seed, the left over quantity of seed would be sold as grain leading to a financial loss to the Seed Corporation. It is proposed that 10% quantity of targeted stock of the National Seed Reserve, may be considered as un-disposed. For the purpose of price differential in respect of the left over 10% seed stocks declared as non-seed, the Seed Analysis Report received from the concerned State Seed Certification Agency is essentially required to be attached as evidence of unsold seed. The implementing agencies will also obtain and submit grain price from the open market in respect of unsold seeds. Cost of condemnation on unsold seeds would be calculated as under:-

**“The procurement value of the seeds of 10% of reserved qty or maintained qty (x)-value of seeds sold as commercial grain after condemnation (Y)= Reimbursable amount would be x-y”.**

**8.14.9 Cost of computerization:** Financial assistance would be provided for development of

necessary infrastructure for setting-up of a data bank and information system to be inter-connected for the purpose of inventory management for reporting to the GOI.

The lump sum financial assistance on the basis of requirement of Implementing agency would be provided to maintain the information on crop wise, variety wise qty maintained by the implementing agencies under NSR against the qty allotted by GOI.

**8.14.10 Cut off dates:** The cut off dates in respect of Kharif and Rabi Season, seeds are to

be adhered to strictly by the participating agencies. For Kharif season, seed will be maintained in the Bank up to 15<sup>th</sup> August before which the participating Corporations will not be able to sell these seeds on their own and clearance from the DAC will be required. After 15<sup>th</sup> August, State Government, participating Corporation/authority will be able to sell the seeds freely as per their commercial policies. Similarly, Rabi seeds will be maintained in the NSR till 15<sup>th</sup> December, before which the participating agencies will be able to dispose the seeds only after getting permission from the DAC.

After 15<sup>th</sup> December, participating agencies will be able to sell their seeds freely as per their commercial policies.

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### **8.15 APPLICATION OF BIOTECHNOLOGY IN AGRICULTURE (Share 100% GOI)**

8.15.1 Financial assistance for establishment of new tissue culture lab and assistance for

rehabilitation/strengthening of old tissue culture Labs.

Financial Assistance up to Rs. 2.50 crores for establishment of new Tissue Culture Lab and Rs. 20 lakh for rehabilitation /strengthening of old tissue culture lab would be admissible for agricultural/forestry/medicinal crops and the crops which are not covered under National Horticulture Mission. The implementing agency would make all out efforts to produce 8.78 lakh tissue culture plants of sugarcane, forestry plant and medicinal plant in the first year and subsequently production of these plants would increase up to 11.37 lakh and 15.75 lakh in second year and third year respectively.

8.15.2 Capacity Building, Training of Manpower and awareness campaign for up-gradation of

post release monitoring of GM Crops.

- An intensive and integrated awareness promotion on issues relating to GM crops with active cooperation of various scientific organizations/ institutions/ State Agricultural Universities/ NGOs to generate public awareness shall be launched.
- The campaign may be organized through workshops/ seminars/ media campaigns including through Krishi channels. Accordingly grants shall be given to various institutions/ organizations/ SAUs etc.
- DAC will also assist National/ International Conferences/ Workshops on Agricultural Biotechnology organized by the Department/ DBT/ ICAR/ MoEF/ SAUs/ and other reputed institutions/ organizations etc. Such assistance will be considered on case to case basis.

### **8.16. Public Private Partnership (PPP) in Seed Sector (Share 50% GOI and 50% State)**

PPP Mode will be operated by the selected Private Enterprise, State Government, ICAR Institutes, State Agricultural Universities, Seeds Corporations owned by the

Central and State Government and State Government and Union Territories. The Private Enterprises includes Individual or consortium, group of Indian Farmers/Producers Organizations/Producer Company, partnership/Proprietary Firms, Companies, Co-operatives, registered NGOs etc., who are engaged in production, distribution of seeds.

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The Public Private Partnership (PPP) will be governed by the following parameters.

- i. Assistance will be project based and will be considered on cost to cost basis as per technical and commercial viability of the project duly appraised by the institutions empanelled by Sub-Mission of Seed & Planting Material under National Mission on Agricultural Extension and Technology (NMAET).
- ii. The public sector partners include the State Seed Missions; ICAR; SAUs; State Seeds Corporations; national seed producing agencies such as NSC and SFCI etc and other agencies considered appropriate by State Government/ Sub-Mission of Seed & Planting Material under National Mission on Agricultural Extension and Technology (NMAET).
- iii. All proposals that involve the public sector partners at State level will be routed and recommended through the concerned State Government/State Seed Mission. Proposals relating to the national seed producing agencies such as NSC and SFCI will be routed directly to the Department.
- iv. Partnership arrangements will be based on an agreement prescribed by the Department/ Sub-Mission of Seed & Planting Material under National Mission on Agricultural Extension and Technology and signed between the two partners.
- v. The Public Sector/Private Sector will be liable for payment of revenue fees, service charges and other charges, if any, being levied by the authority.

**8.17. Assistance for Boosting Seed Production in Private Sector (Share 100% GOI) :**

Private Companies, individual entrepreneurs, self-help groups, seed co-operatives and partnership firms are eligible for subsidy. The component is implemented through Nationalised/Commercial Banks and the National Co-operative Development Corporation (NCDC). The assistance is for creation of infrastructure facilities relating to

seed cleaning, grading, processing, seed treating, packaging and storage units as well as for seed testing facilities including R&D. National Seed Corporation is the nodal agency for implementation and monitoring of this component with rate of assistance as under:

- Credit linked back ended subsidy @40% of the capital cost of the project in general areas and 50% in case of hilly and scheduled areas subject to an upper limit of Rs 150 lakhs per project. Two percent (2%) of the total fund utilized under the component will be allowed as administrative charges to the Nodal agency.

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### **8.18 Support to Sub-Mission Director and Survey/Studies (Share 100% GOI)**

8.18.1 The Sub-Mission will be managed by the existing staff and officials of Seed Division

and engaging Consultants and other supporting staff on contractual basis. Cost of contractual staff and other contingencies including cost of evaluation/ other studies would be met from the funds allocated to SMSP Headquarter.

**8.19. PPV&FRA(Share 100% GOI) :** To fulfil the obligations under Article 27(3)(b) of Trade Related Aspects of the Intellectual Property Rights (TRIPS) Agreement of the World Trade Organization (WTO) which has been ratified by India, the Department of Agriculture and Cooperation, Govt. of India has enacted Protection of Plant Varieties and Farmers' Rights Act (PPV&FR Act), which provides for the establishment of an effective system for Protection of Plant Varieties, the Rights of Farmers and Plant Breeders and to encourage the development of new varieties of plants. This legislation intends to stimulate investment for research and development, both in public and private sector for development of new varieties for accelerated agricultural development in the country. The Act also facilitates the growth of the seed industry to ensure availability of high quality seeds of new varieties to farmers. This Scheme is being implemented by the Protection of Plant Varieties and Farmers' Rights (PPV&FR) Authority established on 11<sup>th</sup> November, 2005, under the provisions of PPV&FR Act, 2001.

PPV & FR Authority has the mandate to protect plant varieties and farmers' & breeders' rights by enforcement of the provisions of the PPV & FR Act, 2001 and

subordinate legislation made there under. Application of Intellectual Property Rights (IPRs) to plant varieties covering agriculture, plantation crops, trees, aromatic & medicinal plants, etc. is also being taken up by the Authority. The key objective of Plant Variety Protection (PVP), a form of Intellectual Property Rights (IPR) is to stimulate plant variety innovations. PPV & FR Authority is vested with quasi-judicial powers for implementation of various provisions of PPV&FR Act, 2001. Funds have been allocated for the PPV&FRA for undertaking their mandated and day-to-day activities as under:

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### **S.No. Activities**

1. Strengthening of Headquarter and branch offices and ushering in of e-Governance at headquarter and branches:
2. Establishment of four new branch offices of the authority.
3. Construction of plant variety complex to house the PPV&FR Authority and Plant Variety Protection Appellate Tribunal and staff quarters.
4. Maintenance of reference varieties & testing of candidate varieties.
5. Development of DUS tests guidelines for new crops.
6. To promote awareness about farmers' rights as provided by the PPV&FR Act.
7. Programme for documentation indexing and cataloguing facility, to ensure availability of seeds of the varieties registered and to collect statistics with regard to plant variety under provisions of the act
8. Establishment of Tribunal
9. Gene Fund to recognize the efforts of the farmers' and farmers' communities for their conservation efforts.
10. Attending international seminars, workshops, meeting and membership of international organization etc.
11. Strengthening of existing Gene bank/field gene banks and establishment of new field gene bank
12. Establishment of network system for DUS testing and management of database and information system

13. Establishment of Library

14. Human Resource Development

9. **Summary of pattern of Assistance** : The component-wise pattern of assistance for SMSP

under NMAET during XII Plan is summarised as under:

**SI**

**no**

**Intervention Pattern of funding**

**Rate of Assistance**

1 Strengthening

for Seed

Quality

Control

100% GOI

share,

except a

new subcomponent

with 75:

25 Centre :

State

share

**(i) Seed Testing Laboratories:**

Equipments for Seed Testing Laboratories: Assistance for Rs.60 lakh per laboratory will be available for laboratory equipments . Details of equipments and estimated cost for handling approximately 10,000 samples per year in a laboratory is given at Annexure –II.

Renovation of Seed Testing Laboratory: Rs. 20.00 lakh available for renovation of a seed testing

laboratory with capacity of 10,000 seed samples with area of 250 Sqm.

Equipments for DNA Finger Printing / Varietal Purity-Testing Laboratory: Assistance for Rs.70 lakh will be available for DNA finger-printing facility at one notified seed testing laboratories

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Specialised seed health testing units: Assistance for Rs. 55.00 lakh will be available to establish/strengthen one specialized seed health testing laboratory.

Payment of ISTA fee : Financial assistance of Rs.15 lakh will be available to the maximum 5 Seed Testing Laboratories functioning under NSRTC, State Government/Union Territories, Seeds Corporations, and Seed Certification Agencies to obtain / running the membership of International Seed Testing Association (ISTA).

**(ii)** Strengthening of Seed Law Enforcement:

Assistance for re-imburement of seed sample cost @ Rs. 10.00 lakh is available. (75% centre :25 % State)

**(iii)** Support to the National Seed Research and Training Center: Financial assistance of Rs. 12.00 crore will be provided to NSRTC for salary wages, maintenance of facilities and other routine activities and administrative expenditures for 3 years.

Development of Centralized Seed Certification Portal at NSRTC : Financial Assistance will be provided for development of software and hardware @Rs. 20.00 lakh per State Seed Certification Agency Centralized Seed Certification Portal at NSRTC for giving linkage to the 25 SSC



(iv) Training and workshop : Financial assistance of Rs.2.00 lakh will be available for training on seed related activities viz. training of 25 persons for 5 days training course.

(v) Strengthening of Central Seed Committee and Central Seed Certification Board: Financial assistance of Rs..10.00 lakh per year is available for TA / DA for non-official members of CSC & CSCB and its subcommittees.

## 2 Strengthening

of Grow Out

Test(GOT)

Facilities

100% GOI (i) Grow-out Test Farm: Financial assistance of Rs.50.00 lakh for strengthening of 5 hectare of GOT farm.

(ii) Green House facility: An assistance of Rs.10 lakh will be available for establishment of Green House facility to the eligible organizations.

## 3 Support to

Seed

Certification

Agencies

25 % GOI :

75% State

(i) Salary for the Staff: Rs.50.00 lakh, per agency, per year. will be available for staff which are involved in seed management; field inspection; sampling; analysis; monitoring; evaluation, certification and pre and post harvesting supervision etc.

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(ii) Travelling allowance: 25% of the total cost of

travelling allowance subject to maximum limit of Rs. 10.00 lakh per agency to conduct of inspection, analysis and certification activities, the mobility of staff through jeep and motor cycle is proposed based as one for every 800 hectare and 400 hectare respectively.

(iii) Office Automation & Communication facility :

Financial assistance will be available to each seed certification agency for supporting Office automation & Communication facility up to Rs.50.00 lakh per SCA.

4 Seed

Treatment

75 % GOI :

25% State

Financial assistance will be available up to 75% of the cost as subsidy for cost of seed treatment @

Rs.100.00 per qntl. of seeds with maximum central assistance for one agency per year will be Rs.20 lakh.

5 Promotion of

Seed Export

100% GOI (i) Assistance freight charges from seed store/warehouse to port of exit @30% of the actual cost subject to maximum of Rs.3.00 lakh per beneficiary (20 units).

(ii) Assistance to exporter/producer/growers for set up of seed conditioning unit for conditioning the seeds for export including controlled storage unit @40% of the actual cost subject to maximum of Rs.10.00 lakh per beneficiary (19 units).

(iii) Up-gradation of Seed Testing Laboratory upto the ISTA Standard to issue the orange certificate for

international seed trade @25% of the actual cost  
subject to maximum of Rs.5.00 lakh per  
beneficiary (10 laboratories).

6 Support for  
R&D, contract  
Research and  
Acquisition of  
New Varietal  
Products.

60 % GOI :

40% State

Assistance of 60% subject to maximum of Rs.1.15  
crore will be provided to prepare a project for  
acquisition of new varietal project, technology Contract  
Research, setting up of R&D Unit, etc. The beneficiary  
institute has to provide the detail financial backup of  
remaining 40% of the project.

7 Strengthening

of Seed

Farms

75 % GOI :

25% State

75% financial assistance restricted to approved project  
cost to maximum limit of Rs.80.21 lakh including State  
share will be provided to by GOI to implementing  
agencies for each farm which comprises -.

**(i)** Financial assistance of Rs.5.00 lakh will be  
provided for renovation of Staff Quarters  
including office building etc. for each farm

**(ii)** Financial assistance of Rs.3.00 lakh will be  
provided for repairing of internal road etc. for

each farm.

**(iii)** Financial assistance of total Rs.11.00 lakh will be provided for repair, purchase of farm

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machinery & equipments etc. as per cost norms for each farm

**(iv)** Financial assistance of total Rs.3.00 lakh will be provided for construction of farm machinery & equipments etc. sheds each farm

**(v)** Financial assistance of total Rs.3.65 lakh will be provided for construction /repairing of threshing floor @ Rs.730/sq. meter to a maximum of 500 sqm. for each farm

**(vi)** Financial assistance of total Rs.14.00 lakh will be provided for establishment of Seed Processing Plant 200 MT capacity including Building (Rs.9.80 lakh), approach road (Rs. 2.20 lakh), Drainage (Rs.2.20 lakh),

**(vii)** Financial assistance of total Rs.7.56 lakh will be provided for Seed Processing Machinery/supporting equipments etc. for each Farm

**(viii)** Financial assistance of total Rs.10.50 lakh will be provided for Pre fabricated /or other type of Seed Storage Godown of 200 MT capacity for each Farm.

**(ix)** Financial assistance of Rs.5.00 lakh for development of irrigation facilities will be provided as under—

a) Shallow tube well (70-80 feet) Rs.1.50 lakh

(b) Medium tube well(40 meter) Rs.3.00  
lakh

(c) Deep tube well(75 meter) Rs.3.90  
lakh

**(x)** assistance of total Rs.7.50 lakh maximum will be provided for Irrigation underground HDPs Pipeline etc. for each farm.

**(xi)** Financial assistance for Drip & Sprinkler Irrigation facilities will be provided as per NMMI or actual, whichever is less upto a maximum of Rs.10.00 lakhs.

8 Seed Village 100% GOI (i) Distribution of Seeds : 50% assistance will be provided for distribution of foundation / certified seeds required for 1 acre area per farmer for cereal crops.

(ii) Financial assistance @ 60% cost of foundation/ certified seeds of pulses, oilseeds, Green Manure & Fodder crops etc. required for 1 acre area per farmer will be provided.

(iii) Financial assistance of Rs.15000 per groups ( 50-150 farmers each groups) will be provided for farmers training on seed production and post harvest seed technology (Rs.0.15 lakh)

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(iv) Financial assistance for treating seeds produced in the Seed Village will be available @ 3500 per seed treating drum of 20Kg capacity and Rs. 5000 per drum of 40Kg capacity.

(v) To encourage farmers to develop storage capacity of appropriate quality, financial assistance will be given to farmers for purchasing Seed Storage bins. The rate of assistance will be as under.

@33% for SC/ST farmers for 10 qtls. capacity Rs.1500

@33% for SC/ST farmers for 20 qtls. capacity Rs.3000

@25% for General farmers for 10 qtls. capacity

Rs.1000

@25% for General farmers for 20 qtls. capacity

Rs.2000

9 Certified seed

production

through seed

villages

75 % GOI :

25% State

**I.** 75% financial assistance will be providing for foundation/certified seeds required for 1 acre per farmers for pulses, oilseeds, fodder and green manure crops.

**II.** Financial assistance @50% of seed certification charges actual or maximum of Rs.600/ha whichever is less. (Rs.0.60 lakh for 100ha. area)

**III.** Financial assistance @ Rs.15000 per groups (of 50-150 farmers each groups) will be provided for farmers training on seed production and post harvest seed technology will be provided.

**IV.** Assistance to establish seed processing and prefabricated or other type of seed storage godowns 150 sqm. @ Rs.10000 per sqm. to process and store 200 Mt capacity will be available for each seed village

**V.** Financial assistance of Rs.7.56 lakh will be

provided for seed processing machinery and supporting equipments.

10 Seed

Processing

Plant

100%GOI (i) Financial assistance will be provided to modular design of 1000 MT and higher annual capacity seed processing capacity plants (wheat basis) @ Rs. 37.80 lakh and so on.

(ii) Financial assistance for construction of building required for Seed processing plant and other supporting structure @ Rs. 32.70 lakh and so on.

11 Seed Storage 100% GOI (i) Financial assistance towards cost of construction for various type of seed storage godowns including pallet/ racks, cover, sprays, dusters etc. required for safe storage of seeds will be provided as per details annexed.

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(ii) Financial assistance for modernization of existing Asbestos Sheet stores / ventilated flat roof stores dehumidified or air conditioned and dehumidified stores will be provided at a differential cost @ Rs. 6500 per sqm. and Rs. 10500 per sqm. respectively. Financial Assistance @ Rs. 4000/- sqm. will also be provided for modernization of dehumidified storage to the level of air conditioned and dehumidified stores.

12 Transport

Subsidy

100% GOI (i) 100% difference between road and Rail transportation charges will be reimbursed to the

implementing States/ Agencies for Movement of Seeds produced outside the States and moved to these identified States Capital / district head quarter.

(ii) Actual cost restricted to maximum limit of Rs.120 per qtls. whichever is less for movement of seeds transported within the State from States Capitals / District Head Quarters to sales outlets /sale counters will be reimbursed to the identified States.

13 Assistance

for

maintenance

of Breeder

Seed

75 % GOI :

25% State

Financial assistance @ Rs. 99.98 lakh (Recurring and Non recurring) will be provided for maintenance breeding of nucleus seeds for further multiplication of breeder seeds of various agricultural crops.

14 National

Seed

Reserve

100% GOI **(i) Cost of Seeds (Revolving Fund):** Financial assistance @ 100% of total procurement value of foundation and certified seeds will be given to the participating organizations in the form of revolving fund.

**(ii) Maintenance Cost:** Maintenance cost pertaining to Processing charges, cost of packing material, labour costs involved in the packing, cost of certification will



be provided to the implementing agency up to Rs.300 per qtls. and handling cost up to Rs.200 per qtls. subject to actual cost incurred by implementing agencies.

**(iii) Cost of Seed Storage Infrastructure:-** Financial assistance will be provided in the enlarged proportion based on the criteria fixed/ specified in the guidelines as under:-

**Particulars Capacity**

**M.T.**

**Size**

**Sqm**

**Rate**

**Rs./sq**

**m**

**Tota**

**cost**

**In la**

Ventilated Flat

roof stores

1000 700 7500 52

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• **Electrification-** @ 5% of cost of Rs. 52.50 lakh incurred on seed storage infrastructure for one location = Rs. 2.62 lakh

• **Compound wall & internal roads -** @ 5% of cost of Seed Storage infrastructure for one location i.e., = Rs. 2.62 lakh

**(iv) Cost of material handling equipment:** Financial assistance will be provided @ Rs. 50 per qtls to the implementing agency for purchasing of material handling equipment.

**(v) Assistance for purchase of Machinery, plant**

**building, receiving shed and drying**

**platform:** The maximum assistance to the implementing agencies will be given for purchase of machinery upto the capacity of 3000 tonnes per annum at the place where NSR has been maintained.

**Items 1000 2000 3000**

Equipment & Machinery

cost (Rs. in Lakhs)

37.80 43.00 61.00

Size in sqm. @ Rs.

7000/sqm.

Plant building cost (Rs.

in lakh)

450

31.50

525

36.75

700

49.00

Size in sqm. @ Rs.

1200/sqm.

Drying platform cost

(Rs. in lakh)

100

1.20

200

2.40

300

3.60

**Total 70.50 82.15 113.60**

**(vi) Cost of services outsourced for fumigation, spraying, maintenance of dust free environment staking, de-staking and other operations involving labour:-** Maximum assistance upto Rs. 10 per qtl or actual amount incurred (whichever is less) would be provided to the implementing agencies every year on the qty of seeds maintained by the implementing agency.

**(vii) Cost of condemnation /unfit seeds:** 10% qty of targeted qty for the National Seed Reserve may be allowed under cost of condemnation.

**“The procurement value of the seeds of 10% of reserved qty or maintained qty (x)-value**

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**of seeds sold as commercial grain after condemnation (Y)= Reimbursable amount would be x-y”.**

**(viii) Cost of computerization:** The lump sum financial assistance on the basis of requirement of Implementing agency would be provided to maintain the information on crop wise, variety wise qty maintained by the implementing agencies under NSR against the qty allotted by GOI.

15 Application of

Biotechnology

in

Agriculture

100% GOI Financial Assistance up to Rs. 2.50 crores for establishment of new Tissue Culture Unit and financial assistance up to Rs. 20 lakh for rehabilitation

/strengthening of old tissue culture lab as per the item given in the details in the Scheme.

16 Public Private

Partnership in

Seed Sector

50 % GOI :

50% State

The credit linked @ 50% of the cost of the project subject to maximum of Rs.50.00 lakh per beneficiary will be provided.

17 Assistance

for Boosting

Seed

Production in

Private

Sector

100% GOI a) Credit linked back ended subsidy is enhanced @40% of the capital cost of the project in general areas and 50% in case of hilly and scheduled areas subject to an upper limit of Rs 150 lakhs per project

b) Assistance will also be available for R&D.

c) With subsidy as proposed, a Committee will be set up by the Department to recommend cases and monitor progress under the Scheme.

d) An agency will be selected and designated by the Mission as the nodal agency subject to overall control of the Committee. 2% of the total fund utilized under the component will be allowed as administrative charges for the agency.

e) Efforts will be made to popularize the Scheme and the 2% of the annual allocation will be allowed as cost for the same.

18 Support to  
Sub-Mission  
Director and  
Survey /  
Studies

100% GOI Hiring of consultants @ Rs. 70,000/- (max) alongwith supporting staff and surveys/studies conducted for smooth/effective implementation of the SMSF.

19 PPV&FRA 100% GOI Funds have been allocated for the PPV&FRA for undertake day-to-day activities and mandated works under PPVFR Act.

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## **10. ANNEXURES**

### **Annexure-I**

#### **COST OF LABORATORY EQUIPMENTS FOR SEED TESTING LABORATORIES**

##### **Equipment No.**

##### **Required**

##### **Rate of Equipment**

##### **(Rs.)**

##### **Total Amount**

##### **(Rs.)**

1. Seed sampling and dividing

a) Seed triers (assorted sizes) One set 25,000 25,000

b) Boerner divider 1 8,500 8,500

c) Gamet divider 1 17,000 17,000

d) Soil type divider 1 7,500 7,500

2. Sample storage boxes and racks As per  
requirement

70,000 70,000

3. Laboratory models of following

- a) Air Screen cleaner cum grader  
1 1,50,000 1,50,000
- b) Aspirator 1 35,000 35,000
- 4. Balances
  - a) Single pan (top loading) 2 20,000 40,000
  - b) Analytical balance 1 50,000 50,000
- 5. Purity Work Boards 6 3,500 21,000
- 6. Germinators
  - a) Cabinet germinators (Single Chamber)  
1 1.75,000 1.75,000
  - b) Cabinet germinators (Double chamber)  
1 2,55,000 2,55,000
  - c) Walk-in-room germinator, stepin-germinator  
1 15,00,000 15,00,000
- 7. Refrigerator 1 35,000 35,000
- 8. Sand Sterilizer 1 50,000 50,000
- 9. Hot air ovens 2 40,000 80,000
- 10. Grinding mill 1 50,000 50,000
- 11. Binocular Stereoscopic Microscope  
1 2,00,000 2,00,000
- 12. Incubators 2 95,000 1,90,000
- 13. Autoclave 1 40,000 40,000
- 14. Controlled Seed Storage Room 1 9,00,000 9,00,000
- 15. Digital Temperature and Humidity Indicator  
3 20,000 60,000
- 16. pH Meter 2 10,000 20,000
- 17. U V Lamp/Chamber 1 40,000 40,000
- 18. Miscellaneous equipment

1. Seed blower 1 35,000 35,000
2. Digital Moisture Meter 2 20,000 40,000
3. Hand Sieves One set 50,000 50,000
4. Seed Sieve Shaker 1 50,000 50,000
5. Seed herbarium model 1 1,00,000 1,00,000
6. Counting Boards Assorted 25,000 25,000
7. Sand benches As per  
requirement  
50,000 50,000

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8. Water Sprinklers 2 25,000 50,000
19. Miscellaneous supplies
  - a) Sample pans 10 10,000 1,00,000
  - b) Desiccators 6 20,000 1,20,000
  - c) Aluminium cans with lids 100 - 25,000
  - d) Forceps 12 - 5,000
  - e) Magnifiers (10x) 6 - 35,000
  - f) Aluminium dishes 50 - 50,000
  - g) Petri dishes As per  
requirement  
- 35,000
  - h) Plastic boxes -do- - 25,000
  - i) Other glassware &  
Apparatus/Desiccators  
-do- - 2,50,000
20. Impression Board-Assorted  
numbers  
1 set 35,000 35,000
21. Illuminated Stand Magnifier 2 10,000 30,000
22. Hand lenses 10 10,000 1,00,000
23. Electrical Conductivity Meter (EC  
Bridge)  
1 35,000 35,000
24. Laminar Flow Chamber 1 75,000 75,000

25. Computer & Laser Printer 1 45,000 45,000  
 26. EC Meter (Digital) 2 30,000 60,000  
 27. Seed Scarifier (Electric) 1 1,15,000 1,15,000  
 28. Thermometer (Dry Bulb) 6 1,000 6,000  
 29. Water Distillation Unit 1 35,000 35,000  
 30. Purchase of generator up to 50  
 KVA capacities  
 1 5,00,000 5,00,000

**Total 60,00,000**

***Note: Rate quoted is approximate and tentative***

***If required by the STL the equipments not covered in the above list can also be considered for financial assistance based on justification.***

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**Annexure-II**

**COST OF EQUIPMENTS FOR DNA FINGER PRINTING LABORATORIES**

**Equipment No.**

**Req.**

**Rate of**

**Equipment**

**(Rs.)**

**Total**

**Amount**

**(Rs.)**

1. DNA Electrophoresis system with power supply 1 5,00,000 5,00,000  
 2. Gel Documentation Unit with UV Transilluminator 1 3,50,000 3,50,000  
 3. ELISA Reader 1 2,00,000 2,00,000  
 4. PCR machine / Thermo Cycler 1 4,00,000 4,00,000  
 5. Table Top Refrigerated  
 Centrifuge  
 1 2,50,000 2,50,000  
 6. Micro Centrifuge 1 2,00,000 2,00,000  
 7. Multipurpose Digital Shaker/Orbital Shaker 1 1,30,000 1,30,000  
 8. Water Bath 1 50,000 50,000  
 9. Test Tube Rotator 1 20,000 20,000



10. Rotary Mixture 1 20,000 20,000
11. Heating Blocks 1 15,000 15,000
12. Water Purification /Double distillation system 1 4,00,000 4,00,000
14. Refrigerators
  - a. 710 Liters 1 71,000 71,000
  - b. 200 Liters 1 25,000 25,000
15. Analytical Balance 2 50,000 1,00,000
16. Biotechnological Plastic wares and Glassware's - - 1,75,000
17. 6KV UPS with Batteries 1 1,10,000 1,10,000
18. Autoclave 1 60,000 60,000
19. Computer & Laser Printer 1 45,000 45,000
20. Fluorimeter 1 35,000 35,000
21. Freezer (-20 to - 80 °C) 1 1,00,000 1,00,000
22. Fumehood 1 50,000 50,000
23. Furnishing of the Lab 1 1,50,000 1,50,000
24. Hot Air Oven 1 40,000 40,000
25. Hot plate cum stirrer 1 12,000 12,000
26. Liquid nitrogen can 1 35,000 35,000
27. Microwave oven 1 10,000 10,000
28. Mortar and pestle 10 500 5,000
29. pH meter 1 12,000 12,000
30. Pipetman 1 Set 1,00,000 1,00,000
31. Spectrophotometer 1 40,000 40,000
32. Flash Gel System 1 7,50,000 7,50,000
33. Real Time – PCR with Accessories 1 15,00,000 15,00,000
34. Nano-Drop 1 2,50,000 2,50,000
35. Ice Flake Machine 1 1,50,000 1,50,000
36. Gel Drier (Bio-rad) 1 2,00,000 2,00,000
37. Vertex Mixer 2 20,000 40,000
38. Renovation of Lab to minimize the utilization of existing facilities  
- 1,00,000 1,00,000

**Total 70,00,000**

***Note: Rate quoted is approximate and tentative***

***If required by the STL the equipments not covered in the above list can also be considered for financial assistance based on justification.***

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**Annexure-III**

**COST OF EQUIPMENTS FOR SEED HEALTH TESTING LABORATORIES**

**( Amount in Rs.)**

**Equipment**

**No.**

**Required**

**Rate of**

**Equipment**

**Total**

1. Refrigerated Centrifuge (Up to 20,000 rpm) 1 7,50,000 7,50,000
2. Centrifuge Table Top (up to 3-5,000 rpm) 1 1,00,000 1,00,000
3. Clean Bench 1 75,000 75,000
4. Automatic Rotary Shaker 1 50,000 50,000
5. Double Distillation Apparatus 1 1,50,000 1,50,000
6. Incubation Chambers (25-32°C) 6 lit with Glass Door 1 3,50,000 3,50,000
7. NUV incubator (21°C) with automatic time switch for lamps 1 50,000 50,000
8. Bacteriological incubators 1 50,000 50,000
9. Haemocytometer 1 10,000 10,000
10. Growth Chamber of Standard Size 1 3,00,000 3,00,000
11. Filtration Apparatus 1 55,000 55,000
12. Electrostatic Air Cleaner 1 1,00,000 1,00,000
13. Phase-Contrast Microscope 1 2,50,000 2,50,000
14. Fluorescence Microscope 1 2,50,000 2,50,000
15. Universal ELISA Plate Reader (ELx800 Ms) 1 2,50,000 2,50,000
16. Immuno-Blotter and Accessories 1 1,50,000 1,50,000
17. Advanced Laminar Flow 1 1,50,000 1,50,000
18. Electrophoresis and Gel Documentation System 1 3,00,000 3,00,000
19. Western Blot 1 1,00,000 1,00,000
20. UV- Spectrophotometer 1 2,00,000 2,00,000
21. Ultra-microtome 1 1,50,000 1,50,000
22. Millipore Water Purification Unit with Bacteriological Filter 1 1,00,000 1,00,000

- 23. Elisa Microplate Washer (ELx405 Select)-96 Well 1 50,000 50,000
- 24. Microfiel 96 Well Plate Dispenser 1 50,000 50,000
- 25. pH meter (Table Top and Digital) 1 30,000 30,000
- 26. Shaking Incubator 1 1,00,000 1,00,000
- 27. Micropipette (5 Electronic & 25 Manual) 1 Set 50,000 50,000
- 28. Blender/Mixer Reputed Brand 1 30,000 30,000
- 29. Autoclave (Vertical) 1 50,000 50,000
- 30. Renovation of Lab to minimize the utilization of existing facilities - 2,00,000 2,00,000
- 31. Kits for Total Aflatoxins, Deoxynivalenol, Total Fumonisin, Ochratoxin A, T-2 Toxin and Zearalenone, Mycotoxin Tests. 1 5,00,000 5,00,000
- 32. Allergen ELISA Test Kit 1 50,000 50,000
- 33. Grinding Machine (Express Grinding) 1 1,00,000 1,00,000
- 34. Microscope with Image Analyzer 1 1,50,000 1,50,000
- 35. Renovation of Lab to minimize the utilization of existing facilities - 2,00,000 2,00,000

**Total 55,00,000**

***Note: Rate quoted is approximate and tentative***

***If required by the STL the equipments not covered in the above list can also be considered for financial assistance based on justification.***

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**Annexure-IV**

**PATTERN OF EXPENDITURE FOR TRAINING PROGRAMME**

**S.**

**No**

**Particulars Amount Tentative Cost**

**per course (5 days duration)**

**for 25**

**participants**

**Remarks**

1 Honorarium/Remuneration to Course Director

Rs. 1500/- Rs. 1500/- Do not exceed

2 Honorarium to lectures and  
Secretariat Staff including  
TA/DA to non-officials

Rs. 1000/- per  
lecture

Rs. 16000 Do not exceed

3 Preparation of AV Aids (with  
the introduction of power  
point presentation)

Rs. 2000/- per  
course

Rs. 2000/- Do not exceed

4 POL including hiring of  
vehicle of institute vehicle,  
stationary, misc.

contingencies, cost of  
detailed report, field trips etc.

Rs. 8000/- per  
course

Rs. 8000/- Do not exceed

5 Supply of supportive literature Rs. 500/- per  
participants

Rs. 12500/- On actual basis

6 Boarding & lodging Rs. 400/- per  
participant/per day

Rs. 50000/- On actual basis

7 Travelling expenditure to only  
the officers of the line  
departments

The TA will be  
reimbursed on  
actual basis and  
as per the  
entitlement of the

officials

Rs. 110000/- On actual basis

Total Rs. 2,00,000/-

**Note:-**

1. Expenditure on item 1,2,3 and 4 may be limited to provision given above.
2. Expenditure on item No. 5,6 and 7 will be on actual basis and will vary with the number of participants. The amount indicated against these items (5,6 and 7) is token in nature and indicated for the purpose of calculation. The Seeds Division/NSRTC, Department of Agriculture and Cooperation, will reimburse entire amount incurred in these items, while settling 'On account advance (OAA).
3. Travel expenses will be reimbursed on actual basis and as per the entitlement of the officials. The participants/trainees will be required to produce money receipt/voucher/original ticket/necessary certificate in support of their claim.
4. There will be an increment by 10% every year over base financial year (2013-14) on selected items at Sl. No. 1,2,4 and 6 with the prior approval of DAC.

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**Annexure-V**

**STRENGTHENING OF GROW OUT TEST FARM FOR 5 HECTARES**

**S.**

**No**

**Activity/Particulars Amount**

**(Rs.in lakh)**

1 Essential civil works at site- sheds, stores, pump houses, workshop, road, fencing, electrification, drying platforms, threshing yards buildings etc. for the Center as a whole.

10.00

2 Irrigation/drainage setup, pipelines, water tanks, slab channels etc. 10.00

3 Land development, leveling, mapping, topography adjustments, bounding, plot lay out, etc

10.00

4 Mould board plough, disc harrow, tillers, levelers, rigger, bund former and such other implements/farm machinery, essential tools for repair and maintenance with trolley. Tractor 35 HP-1 etc.

15.00

5 Mobility for field visit- hiring of one jeep, one motorcycle and 2 bicycles 5.00

**Total 50.00**

***Note: Rate quoted is approximate and tentative***

#### **Annexure-VI**

#### **CREATION OF GREEN HOUSE FACILITIES**

***If required by the STL the equipments not covered in the above list can also be considered for***

***financial assistance based on justification.***

S.N

o

Product and Specifications/Technical Details Rate of Equipment(Rs.)

1. Photo synthetically Active Radiation lamp 2,00,000
2. Normal Tube Lights Standard 4'with fitting 10,000
3. Microprocessor Photosynthesis Monitor panel 50,000
4. Water pad Cooling System 1,00,000
5. Heating system by electric heat convector system 50,000
6. Timer piltz for humidity. 10,000
7. Misting unit heavy duty motor with nozzles, filter, pipes sintex polymer tank 1000 ltr.. 1,00,000
8. Polycarbonate sheet double walled 6 mm thick,. 80,000
9. Roof Screen 50% (shading) colour green manually rolabale 25,000
10. Super structure module aluminium anodized covering strip infra structure 50,000
11. Benching system size 9' x 4' x 2 (LxWxH) Mild steel rust resistant with movable top. 35,000
12. Foundation for green house WIDE BASED 1' below earth's surface, 1' above earth's surface, as kick-board 9" wide. Frame base block height2'. 1,00,000
13. Floor made of crushed 50,000
14. Electrical wiring of entire green house 25,000
15. Electrical Wiring and other works 50,000
16. Pro-Tray 50 Cavity (50 Nos.) 25,000
17. Miscellaneous 40,000

**Total 10,00,000**

## **FORMAT**

### **A. Monitoring Proforma for Strengthening for Seed Quality Control, Strengthening of Grow-Out Test facilities and Support to Seed Certification Agencies**

Sl.

No.

Particulars

1. Name & Address of the Implementing Agency
2. Amount and type of activities for which funds sanctioned
3. Item wise amount spent and activities/facilities created or strengthened
4. List of equipments purchased along with cost
5. (i) Number of seed samples drawn and re-imburement cost of seed samples  
(ii) Total Travelling cost of seed inspector for drawing the seed samples  
(iii) Details of activities of awareness along with cost of each activity.
6. Particulars of training conducted and number of persons trained along with cost
7. Total number of staff in the seed certification agencies
8. Total salary of the seed certification agencies
9. 25% of the annual staff cost
10. Number of vehicle available in the seed certification agencies
11. Total amount spent on TA
12. 25% of the travelling cost
13. Any other information

Signature & Designation of

SNO of Implementing Agency with Seal

### **B. Monitoring Proforma for Scheme for Seed Treatment**

Sl.

No.

Particulars

14. Name & Address of the Implementing Agency
15. Details of the villages & Panchayats
16. Numbers of farmers identified
17. Name & Address of the farmers identified (full details to be annexed)

18. Name of the Crop & Variety of seeds treated

19. Total quantities of seed produced and out of which total quantity of seeds treated

i) Foundation seed

ii) Certified seed

Total

20. Name of the pesticide/fungicide/bio-chemical agent/plant extract etc used for the seed treatment.

21. Quantity of pesticide/fungicide/bio-chemical agent/plant extract etc used for the seed treatment.

22. Price of pesticide/fungicide/bio-chemical agent/plant extract etc used for the seed treatment.

23. Total cost of seed treatment

24. Total subsidy claimed

25. Any other information

Signature & Designation of

SNO of Implementing Agency with Seal

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**C. Monitoring Proforma for Promotion of seed export, Support for R & D, Contract Research and acquisition of new varietal product**

1. Name of the project

2. Name, address and location of the beneficiary

3. i) Total financial outlay Rs. \_\_\_\_\_

ii) Central share Rs. \_\_\_\_\_

iii) Beneficiary share Rs. \_\_\_\_\_

4. Capacity created

(i) Type of facilities in the project.

(ii) List of machineries & equipment along with cost

(iii) Capacity of individual facility of the Project

(iv) Others.

5. Date of operationalisation of Project

6. Detailed Outcome of the Project

Signature & Designation of

SNO of Implementing Agency with Seal



#### **D. Monitoring Proforma for Public Private Partnership (PPP) in Seed Sector**

1. Name of the project
2. Name, address and location of the beneficiary
3. Name of the financing bank
4. Name & address of financing branch
5. Date of sanction of loan by bank
6. i) Total financial outlay Rs. \_\_\_\_\_  
ii) Margin money Rs. \_\_\_\_\_  
iii) Bank loan Rs. \_\_\_\_\_
7. Subsidy claimed
  - i) Date of completion of 25% of Project and subsidy claimed
  - ii) Date of completion of 50% of Project and subsidy claimed
  - iii) Date of completion of 75% of Project and subsidy claimed
  - iv) Date of completion of 100% of Project and subsidy claimed
  - v) Date of operationalisation of Project and subsidy claimed
8. Capacity created
  - (i) Type of facilities created in the project.
  - (ii) List of machineries & equipment along with cost
  - (iii) Capacity of individual facility of the Project
  - (iv) Others.

9. Brief Outcome of the Project

Signature & Designation of

SNO of Implementing Agency with Seal

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#### **E. PROFORMA FOR SUBMISSION OF PROPOSAL UNDER SEED VILLAGE PROGRAMME**

Name of the implementing agency –

Address –

Contact person (alongwith phone no., email and Fax no. etc.) –

Fax No. - Year and Season of Implementation -

Component: Seed Village Programme Rs. in Lakhs.

Amount Proposed

S.

No.

Crop/variety Area

(in ha.)

Seed  
Rate  
(per ha.)  
Seed  
Required  
(in Qtls.)  
Seed  
Cost (Per  
Qtls.)  
Assistance for  
seed allowed  
(Per Qtls)  
No. of  
Seed  
Villages  
No. of farmers covered Amount  
(in lakh)  
Other  
information  
(if any)

General SC ST Women Total

A.1 Cereals

50% Seed

Cost

Pulses ,

oil seeds,

fodders,

Green

manure etc.

60 % Seed

Cost

Total

B. Farmers Training

No. of Groups

No. of Farmers Each Group

Training amount of each Group Rs.15,000

Total Training amount required for Training

C. Seed Storage Bin \*

Seed Bins of 10 qtl. to SC/ST farmers @ Rs. 1500 per bin

Seed Bins of 10 qtl. to General farmers @ Rs. 1000 per

bin

Total amount proposed for Seed Bin

D. Assistance for Seed Treating /Dressing Drums

20 Kg capacity @Rs.3500/drum

40 Kg capacity @Rs.5000/drum

**Grand Total ( A+B+C+D)\*\***

\* as per demand of farmers, the subsidy amount will be decreased / increased according to capacity of seed bins.

\*\* Proposed expenditure (in %) for General, SC and Tribal farmers is to be indicated out of total is mandatory.

**Signature & Designation of**

SNO of Implementing Agency with Seal

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**F. PROFORMA FOR SUBMISSION OF PHYSICAL AND FINANCIAL PROGRESS REPORT  
INCENTIVE ON CERTIFIED SEED PRODUCTION OF PULSES,  
OIL SEEDS, FODDER, GREEN MANURE CROPS THROUGH SEED VILLAGES**

Name & Address of implementing agency Season & Year of implementation

A SEED DISTRIBUTION

State District Crop /

Variety

Area (Acre) Qty. of Foundation /

Certified Seeds

Supplied (Qtl.)

Qty. of

certified

seeds

Produced

(Qtl.)

No. of Seed Village

Organized\*

No. of Farmers Covered\* Financial Progress (Amount Rs.

in lakh) for Foundation Seed /

Certified Seed Distribution

Remarks

Crop-Varietywise

50%

cost of seed

per kg.

Target Achievement Target Achievement Target Achievement Gen.SC ST Women Total Fund  
Received

Fund Utilised Balance

e

B. FARMERS TRAINING

S.

No.

Crop / Variety Place of Training Date No. of farmers participated\* Financial Progress for farmers training

(Amount Rs. in lakhs)

Remarks

Target Achievement

General SC ST Women Total Fund

Received

Fund

utilized

Balance

C. SEED PROCESSING AND STORAGE FACILITIES

S.

No.

Item Physical

target

Actual

Achievement

Financial Progress for farmers training

(Amount Rs. in lakhs)

Remarks

a. Seed processing Fund

Received

Fund utilized Balance

b. Seed storage facilities

c. Seed processing machineries

and Supporting equipments

D. SEED CERTIFICATION CHARGES PAID

Seed Certification Charges paid (50%) or Rs.600/ha. Physical Target

(ha.)

Actual

Achievement (ha.)

Fund Received Fund utilized Balanc

e

Remarks

Total Funds Received from GOI (A+B+C+ D)

(Amount Rs. in lakh)

Funds Utilized Balance Remarks

\* Name of district and block wise seed villages and list of beneficial farmers covered to be uploaded on the website of the State Govt. and a copy of same may also be send to this office.

Signature & Designation of

SNO of Implementing Agency with Seal

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**G. PROFORMA FOR SUBMITTING PHYSICAL PROGRESS REPORT UNDER THE COMPONENT CREATION/STRENGTHENING OF SEED INFRASTRUCTURE FACILITIES**

Year\_\_\_\_\_

Name of the implementing agency –

Address –

Contact person (alongwith phone no., email and Fax no. etc.) –

**Fax No. -**

**A) Seed Processing Facilities**

S.

N

o.

Location-wise Seed

Processing Plant

Created / Strengthened

Number of

Processing

Plant

Seed Processing

Capacity (M.T.)

Funds Received for Seed Processing

Plants from GOI (Amount Rs. in Lakh)

Other

Information

(If any)

Remarks

Target Actual

Achievement

Received Utilized Balance

**Total**

**B) Seed Storage Facilities:**

S.

N

o.

Location-wise Seed

Storage Godown

Constructed

Number of

Seed

storage

godown

Seed Storage Capacity

(M.T.)

Funds Received for Seed Storage

Godown from GOI (Amount Rs. in  
Lakh)

Other Information

(If any)

Remarks

Target Actual

Achievement

Received Utilized Balance

**Total**

**Grand Total (A+B)**

Signature & Designation of

SNO of Implementing Agency with Seal

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H. PROFORMA FOR TRANSPORT SUBSIDY SCHEME ON MOVEMENT OF SEEDS  
SEEDS TRANSPORTED FOR KHARIF / RABI/ SUMMER  
SOWING (NAME OF STATE) FROM OUTSIDE STATE TO STATE  
CAPITAL/DISTRICT HEADQUARTER

Name of the Implementing Agency  
(Quantity in quintals) (Amount in Rs.)

Name of  
State

Name of  
the  
Dispatching

Place &  
State

Place  
where seed  
received

Name of  
crop

Quantity  
moved by  
road (qtls)

Freight Charges (Rs.)

RailRoad Difference

1 2 3 4 5 6 7 8

1. It is certified that the quality shown in column 5 have actually been dispatched.
2. It is certified that rate of rail freight shown in column 6 have been taken from Indian Govt. Railway.
3. It is certified that rate of freight shown in column 7 is on actual basis.
4. It is certified that seed dispatched from to .
5. It is certified that this amount has not submitted in earlier bill by implementing agency.

Signature of Marketing Head  
of Implementing agency.

Signature of Financial Controller/  
Financial Adviser of the Implementing Agency

Counter signature of MD/Chairman of  
Implementing agency other than State  
Department of Agriculture/Horticulture

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## **ABBREVIATIONS**

AAP Annual Action Plan

ADG Assistant Director General

AESA Agro-Eco-System Analysis

APC Agriculture Production Commissioner

APSSDC Andhra Pradesh State Seed Development Corporation

ASC Assam State Seed Corporation

ASSP Annual State Seed Plan

BE Budget Estimate

BRBN Bihar Rajya Beej Nigam

CAG Comptroller & Auditor General of India

CMD Chairman-cum- Managing Director

CPWD Central Public Works Department

DAC Department of Agriculture & Cooperation

DBT Department of Bio-Technology

DARE Department of Agriculture Research & Education

DDG Deputy Director General

DG (ICAR) Director General (Indian Council of Agricultural Research)

DNA Deoxyribonucleic Acid

DUS Distinctiveness, Uniformity and Stability

EC Executive Committee

ECS Executive Committee on Seeds

FIGs Farmer's Interest Groups

GC General Council

GSSC Gujarat State Seeds Corporation

GDP Gross Domestic Product

GFR General Financial Rules

GOI Government of India

GPS Global Positioning System (Navigation Device)



Hr Hour

HDPs High Density Pipes

HSDC Haryana Seed Development Corporation

ICAR Indian Council of Agricultural Research

ICRISAT International Crop Research Institute for Semi-Arid Tropics

ICT Information & Communications Technology

IFD Internal Finance Division

ISTA International Seed Testing Association

JS Joint Secretary

KSSC Karnataka State Seeds Corporation

KSSDA Kerala State Seeds Development Authority

KVKs Krishi Vigyan Kendras

MIS Management Information System

MMA Macro Management in Agriculture

MOA Ministry of Agriculture

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MT Metric Tonnes

MSSC Maharashtra State Seeds Corporation

MPSS&FDC Madhya Pradesh State Seeds & Farm Development Corporation

MOEF Ministry of Environment & Forest

NABARD National Bank for Agriculture and Rural Development

NE North-Eastern

NFSM National Food Security Mission

NGOs Non-Government Organization

NIC National Informatics Centre

NMAE T National Mission on Agricultural Extension and Technology

NMSA National Mission for Sustainable Agriculture

NMMI National Mission Micro Irrigation

NSRTC National Seed Research & Training Centre

NSR National Seed Reserve

NRM National Resource Management

NSC National Seeds Corporation

OECD Organisation for Economic Co-operation and Development  
OSSC Orissa State Seeds Corporation  
PMT Project Management Team  
PSA Principal Secretary ( Agriculture)  
PP Plant Protection  
PPV&FRA Protection of Plant Varieties and Farmers Right Authority  
PRI Panchayat Raj Institution  
PSSC Punjab State Seeds Corporation  
PPP Public Private Partnership  
PSUs Public Sector Undertakings  
PVP Protection of Plant Varieties  
PWD Public Works Department  
R&D Research and Development  
RE Revised Estimate  
RSSC Rajasthan State Seeds Corporation  
SAP State Action Plan  
SAUs State Agricultural Universities  
SC Schedule Caste  
SLEC State Level Seed Mission Executive Co mmittee  
SFAC Small Farmer's Agribusiness Consortium  
SFCI State Farms Corporation of India  
SHGs Self-Help Groups  
SMAM Sub-Mission on Agricultural Mechanization  
SMMC Sub-Mission Monitoring Committee  
SMSP Sub-Mission on Seed and Planting Material  
SNA State Nodal Agency  
SRR Seed Replacement Ratio  
SSCs State Seed Corporations  
SSCAs State Seeds Certification Agencies  
ST Schedule Tribe  
TA Travelling Allowance  
UTs Union Territories  
UK&TDC Uttrakhand & Tarai Development Corporation

UPS&DC Uttar Pradesh Seeds and Development Corporation

WBSSC West Bengal State Seeds Corporation