

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

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)

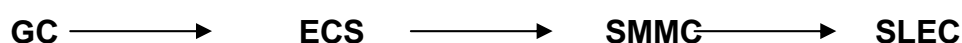
No.	Type	Existing SRR	Proposed SRR
1	Self-pollinated crops	25%	33%
2	Cross-pollinated crops	33%	50%
3	Hybrids	100%	100%

- 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.

- 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.

3. MISSION IMPLEMENTATION STRUCTURES

The proposed Seed Scheme will be implemented in a Mission Mode. The Mission structure at GOI level will comprise of a General Council under the Chairpersonship of Agriculture Minister, Executive Committee for Seeds (ECS) under the Chairpersonship of the Secretary (DAC) and a Sub-Mission Monitoring Committee (SMMC) with Joint Secretary (Seeds) as the Director (SMSP). At the State level, the State Level Seed Mission Executive Committee will be constituted under the Chairmanship of Agriculture Production Commissioner (APC)/Principal Secretary (Agriculture) or Secretary (Agriculture) of the concerned State with the representatives from other concerned Departments and stake holders. Appropriate structures will be created at the district level as per need. Project Management Teams will be constituted at the National Level and State Level. The State Government will have to designate a suitable Nodal agency for implementation and coordination among different Departments/ agencies. However, central agencies like NSC, SFCI, ICAR institutes, etc. will be funded directly by the Department of Agriculture & Cooperation, Ministry of Agriculture or through the Central Agency as decided by ECS.



The implementation arrangements for the Mission shall be as under:-

3.1 National Level

3.1.1 General Council

The Sub-Mission will have a General Council (GC) at the National level under the Chairpersonship of the Union Agriculture Minister. The General Council will be the policy making body giving overall direction and guidance to Sub-Mission and will monitor and review its progress and performance. The GC will be empowered to lay down and amend the operational guidelines regarding day to day operation of the Sub-Mission. GC will be empowered to include /exclude a new agency/organization.

The Chairman, GC would be empowered to take decision on file subject to ratification by the Council. GC will also be empowered to amend/ratify the decisions taken by the ECS. The GC will meet at least twice a year. The Chairperson of GC may nominate more members to the Council as per requirement. The constitution of the General Council is as under:

Agriculture Minister	Chairperson
Secretary (A&C)	Vice Chairperson
Secretary, DARE & DG, ICAR	Member
Chairperson, PPV&FRA	Member
Additional Secretary looking after Seed Division	Member
Additional Secretary & Financial Advisor	Member
Agriculture Commissioner, DAC	Member
Deputy Director General (Crop Science), ICAR	Member
Deputy Director General (Horticulture), ICAR	Member
Joint Secretary (National Horticulture Mission)	Member
Horticulture Commissioner	Member
Joint Secretary (Seeds)	Member Secretary

3.1.2 Executive Committee on Seeds

There will be a Executive Committee on Seeds (ECS) headed by the Secretary, Department of Agriculture & Cooperation to oversee the activities of the Mission and to approve the State Seed Plans. ECS will comprise the following:

Secretary (A&C)	Chairperson
Secretary, DARE & DG, ICAR	Member
Secretary, Department of Animal Husbandry	Member
Chairperson, PPV&FRA	Member
Chairperson, NABARD	Member
Additional Secretary (looking after Seeds Division), DAC	Member
Additional Secretary & Financial Adviser, DAC	Member
Agriculture Commissioner, DAC	Member
Three Experts (SMSP)	Members
Joint Secretary (Seeds) & Director (SMSP)	Member Secretary

ECS will be empowered to approve projects on the basis of the approved norms. ECS shall meet every half yearly. The Chairman may nominate more members to the Committee as per requirement.

3.1.3 Sub-Mission Monitoring Committee (SMMC)

The Sub-Mission Monitoring Committee (SMMC) under the Chairmanship of JS(Seeds) will monitor the implementation of the SMSP and will comprise the officials given below:

Joint Secretary (Seeds)	Chairperson
Horticulture Commissioner	Member
Deputy Commissioner (Seeds)	Member
Deputy Commissioner (Quality Control)	Member
ADG (Seeds), ICAR	Member
ADG (Horticulture), ICAR	Member
Additional Commissioner (Seeds)/ Director (Seeds)	Member Secretary

SMMC will be assisted by technical experts to be appointed on contractual basis for implementation of the Sub-Mission. It will have the responsibility to ensure collaboration among various line departments in the Centre/State to achieve the targets. The Mission HQ will be strengthened by hiring of contractual manpower for technical services and database development, etc. The appointment of technical manpower will be made on contractual basis. The qualifications/ experience/ honorarium for the candidates to be appointed for contractual services shall be decided by the ECS.

The SMMC will guide States / Agencies :

- Publicity/campaign to promote the Mission objectives.
- Organizational and technical matters.
- Implementation and monitoring.
- Capacity building programmes.
- Concurrent/impact evaluation of the programmes.
- Documentation and dissemination of the success stories.

3.2 State Level Seed Mission (SLSM)

3.2.1 State Level - Executive Committee of Seeds (SLEC)

A State Level Seed Mission - Executive Committee (SLEC) will be constituted by the State Government under the Chairpersonship of the Agricultural Production Commissioner/ Principal Secretary/Secretary (Agriculture) having representatives from other concerned Departments and stakeholders for planning and overseeing the implementation of the programmes. DAC may also nominate its representative who will be a member in the SLEC. The State Mission Director to be appointed by the State Government will be the Member Secretary of SLEC. The Committee will meet at least once in every quarter.

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 alongwith 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.

- 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.

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.

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 sub-components 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.

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, SFCI, 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 finger-printing 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.

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**.

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 Certification 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

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

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).

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

- 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.

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. @

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

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.

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

- (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

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

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.	450	525	700
Plant building cost (Rs. in lakh)	31.50	36.75	49.00
Size in sqm. @ Rs. 1200/sqm.	100	200	300
Drying platform cost (Rs. in lakh)	1.20	2.40	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 15th 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 15th 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 15th December, before which the participating agencies will be able to dispose the seeds only after getting permission from the DAC. After 15th December, participating agencies will be able to sell their seeds freely as per their commercial policies.

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.

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.

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 11th 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:

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 sub-component with 75:25 Centre : State share	<p>(i) Seed Testing Laboratories:</p> <p>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.</p> <p>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.</p> <p>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</p>

			<p>Specialised seed health testing units: Assistance for Rs. 55.00 lakh will be available to establish/strengthen one specialized seed health testing laboratory.</p> <p>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).</p> <p>(ii) Strengthening of Seed Law Enforcement: Assistance for re-imburement of seed sample cost @ Rs. 10.00 lakh is available. (75% centre :25 % State)</p> <p>(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.</p> <p>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</p> <p>(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.</p> <p>(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 sub-committees.</p>
2	Strengthening of Grow Out Test(GOT) Facilities	100% GOI	<p>(i) Grow-out Test Farm: Financial assistance of Rs.50.00 lakh for strengthening of 5 hectare of GOT farm.</p> <p>(ii) Green House facility: An assistance of Rs.10 lakh will be available for establishment of Green House facility to the eligible organizations.</p>
3	Support to Seed Certification Agencies	25 % GOI : 75% State	<p>(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.</p>

			<p>(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.</p> <p>(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.</p>
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	<p>(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).</p> <p>(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).</p> <p>(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).</p>
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	<p>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 -.</p> <p>(i) Financial assistance of Rs.5.00 lakh will be provided for renovation of Staff Quarters including office building etc. for each farm</p> <p>(ii) Financial assistance of Rs.3.00 lakh will be provided for repairing of internal road etc. for each farm.</p> <p>(iii) Financial assistance of total Rs.11.00 lakh will be provided for repair, purchase of farm</p>

			<p>machinery & equipments etc. as per cost norms for each farm</p> <p>(iv) Financial assistance of total Rs.3.00 lakh will be provided for construction of farm machinery & equipments etc. sheds each farm</p> <p>(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</p> <p>(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),</p> <p>(vii) Financial assistance of total Rs.7.56 lakh will be provided for Seed Processing Machinery/supporting equipments etc. for each Farm</p> <p>(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.</p> <p>(ix) Financial assistance of Rs.5.00 lakh for development of irrigation facilities will be provided as under–</p> <p>a) Shallow tube well (70-80 feet) Rs.1.50 lakh</p> <p>(b) Medium tube well(40 meter) Rs.3.00 lakh</p> <p>(c) Deep tube well(75 meter) Rs.3.90 lakh</p> <p>(x) assistance of total Rs.7.50 lakh maximum will be provided for Irrigation underground HDPs Pipeline etc. for each farm.</p> <p>(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.</p>
8	Seed Village	100% GOI	<p>(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.</p> <p>(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.</p> <p>(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)</p>

			<p>(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.</p> <p>(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.</p> <p>@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</p>
9	Certified seed production through seed villages	75 % GOI : 25% State	<p>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.</p> <p>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)</p> <p>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.</p> <p>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</p> <p>V. Financial assistance of Rs.7.56 lakh will be provided for seed processing machinery and supporting equipments.</p>
10	Seed Processing Plant	100%GOI	<p>(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.</p> <p>(ii) Financial assistance for construction of building required for Seed processing plant and other supporting structure @ Rs. 32.70 lakh and so on.</p>
11	Seed Storage	100% GOI	<p>(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.</p>

			(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	<p>(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.</p> <p>(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.</p> <p>(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:-</p> <table border="1"> <thead> <tr> <th>Particulars</th> <th>Capacity M.T.</th> <th>Size Sqm</th> <th>Rate Rs./sqm</th> <th>Total cost In lakh</th> </tr> </thead> <tbody> <tr> <td>Ventilated Flat roof stores</td> <td>1000</td> <td>700</td> <td>7500</td> <td>52</td> </tr> </tbody> </table>	Particulars	Capacity M.T.	Size Sqm	Rate Rs./sqm	Total cost In lakh	Ventilated Flat roof stores	1000	700	7500	52
Particulars	Capacity M.T.	Size Sqm	Rate Rs./sqm	Total cost In lakh									
Ventilated Flat roof stores	1000	700	7500	52									

- **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.	450	525	700
Plant building cost (Rs. in lakh)	31.50	36.75	49.00
Size in sqm. @ Rs. 1200/sqm.	100	200	300
Drying platform cost (Rs. in lakh)	1.20	2.40	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

			<p>of seeds sold as commercial grain after condemnation (Y)= Reimbursable amount would be x-y”.</p> <p>(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.</p>
15	Application of Bio-technology 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	<p>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</p> <p>b) Assistance will also be available for R&D.</p> <p>c) With subsidy as proposed, a Committee will be set up by the Department to recommend cases and monitor progress under the Scheme.</p> <p>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.</p> <p>e) Efforts will be made to popularize the Scheme and the 2% of the annual allocation will be allowed as cost for the same.</p>
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 SMSP.
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.

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, step-in-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

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.

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.

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.

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.

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

CREATION OF GREEN HOUSE FACILITIES

S.No	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

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

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	

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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	

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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

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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

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E. PROFORMA FOR SUBMISSION OF PROPOSAL UNDER SEED VILLAGE PROGRAMME

Name of the implementing agency –										Year and Season of Implementation -				
Address –														
Contact person (alongwith phone no., email and Fax no. etc.) –														
Fax No. -														
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.

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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-Variety-wise 50% cost of seed per kg.	
			Target	Achievement	Target	Achievement		Target	Achievement	Gen.	SC	ST	Women	Total	Fund Received	Fund Utilised	Balance		

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				Fund Received	Fund utilized	Balance		
					General	SC	ST	Women					Total

C. SEED PROCESSING AND STORAGE FACILITIES

S. No.	Item	Physical target	Actual Achievement	Financial Progress for farmers training (Amount Rs. in lakhs)			Remarks
				Fund Received	Fund utilized	Balance	
	a. Seed processing						
	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	Balance	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.

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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. No.	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. No.	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

**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.)		
					Rail	Road	Difference
1	2	3	4	5	6	7	8

1. It is certified that the quantity 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

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 Nigarm
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

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