

# **SUB-MISSION ON AGRICULTURAL MECHANIZATION**

## **OPERATIONAL GUIDELINES**

**(Twelfth Five Year Plan)**



सत्यमेव जयते

**Government of India**

**Ministry of Agriculture**

**Department of Agriculture & Cooperation**

**(Mechanization & Technology Division)**

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## ABBREVIATIONS

AAP	Annual Action Plan
A&C	Agriculture & Cooperation
ADC	Additional Commissioner
ADG	Assistant Director General
ADM	Additional District Magistrate
AICRP	All India Coordinated Research Project
ATMA	Agricultural Technology Management Agency
BIS	Bureau of Indian Standards
CCEA	Cabinet Committee on Economic Affairs
CFMTTI	Central Farm Machinery Training & Testing Institute
CHC	Custom Hiring Centers
CIPHET	Central Institute of Post Harvest Engineering & Technology
CMVR	Central Motor Vehicle Rules
CSAM	Centre for Sustainable Agricultural Mechanization
CSIR	Council of Scientific and Industrial Research
DAC	Department of Agriculture & Cooperation
DC	Deputy Commissioner
DD(A)	Deputy Director (Agriculture)
DDG	Deputy Director General
DLEC	District Level Executive Committee
EC	Executive Committee
EE(A)	Executive Engineer (Agriculture)
EFC	Expenditure Finance Committee
FMTTI	Farm Machinery Training & Testing Institute
FPO	Farmer Producer Organization
GFR	General Financial Rules
GOI	Government of India
ha	Hectare
HP	Horse Power
ICAR	Indian Council of Agricultural Research
ICRISAT	International Crop Research Institute for Semi-Arid Tropics
ICT	Information Communication Technology
IRRI	International Rice Research Institute
JD(A)	Joint Director (Agriculture)
JICA	Japan International Cooperation Agency
KVK	Krishi Vigyan Kendra
kW	Kilo-Watt
M&T	Mechanization & Technology
MIDH	Mission for Integrated Development of Horticulture
MIP	Mission Integration Planning
MIS	Management Information System
NABARD	National Bank for Agriculture & Rural Development
NERFMTTI	North Eastern Region Farm Machinery Training & Testing Institute
NFSM	National Food Security Mission

NIAE	National Institute of Agricultural Engineering
NMOOP	National Mission on Oil Seeds & Oil Palms
NRFMTTI	Northern Region Farm Machinery Training & Testing Institute
NSC	National Steering Committee
PHT	Post Harvest Technology
PHTM	Post Harvest Technology & Management
PPP	Public Private Partnership
PRI	Panchayati Raj Institutions
PSU	Public Sector Undertaking
PTO	Power Take Off
QPR	Quarterly Progress Report
R&D	Research & Development
RKVY	Rashtriya Krishi Vikas Yojana
SAU	State Agricultural University
SC	Scheduled Caste
SFAC	Small Farmers Agri-Business Consortium
SHG	Self Help Groups
SLEC	State Level Executive Committee
SMAM	Sub-Mission on Agricultural Mechanization
SRFMTTI	Southern Region Farm Machinery Training & Testing Institute
ST	Schedule Tribes
TSP	Tribal Sub Plan
UG	User Groups
UT	Union Territory

## **SUB-MISSION ON AGRICULTURAL MECHANIZATION OPERATIONAL GUIDELINES**

### **1.0 Introduction**

- (i) Agricultural land area in the world has limit, but the demand for food is ever increasing due to population growth. To increase productivity in the limited land so as to meet the expanding demand arising from population growth as well as higher income is very important mission.
- (ii) The task assumes greater importance to India, than the rest of the world considering that India accounts for 2.4% of the world's geographical area and 4% of its water resources, but has to support 17% of the world's human population and 15% of the livestock.
- (iii) To increase productivity, timely and precise field work is necessary. To make it possible, agricultural machines take an important role.
- (iv) Among the states, farm power availability in Punjab, Haryana, Western Uttar Pradesh and western part of Rajasthan is higher than the National average of 1.73kW/ha. In rest of the country, especially in Eastern and North-East Regions, it is significantly lower which necessitates promotion of farm mechanization as a special Mission.
- (v) Sub Mission on Agricultural Mechanization (SMAM) will be implemented in accordance with guidelines described hereunder.
- (vi) The scheme will be implemented in all the states, to promote the usage of farm mechanization and increase the ratio of farm power to cultivable unit area up to 2 kW/ha.
- (vii) SMAM will have Central Sector Schemes under component No.1 & 2. Centrally Sponsored Schemes are covered under component No. 3 to 8 in which Government of India contributes 75% and states contribute 25%.

### **2.0 Mission Objectives**

The Mission objectives are as follows:

- (i) Increasing the reach of farm mechanization to small and marginal farmers and to the regions where availability of farm power is low;
- (ii) Promoting 'Custom Hiring Centres' to offset the adverse economies of scale arising due to small landholding and high cost of individual ownership;
- (iii) Creating hubs for hi-tech & high value farm equipments;
- (iv) Creating awareness among stakeholders through demonstration and capacity building activities;
- (v) Ensuring performance testing and certification at designated testing centers located all over the country.

### **3.0 Mission Strategy**

To achieve the above objectives, the Mission will adopt the following strategies:

- (i) Conduct performance testing for various farm machineries and equipments at the four Farm Machinery Training and Testing Institutes (FMTTIs), designated State Agricultural Universities (SAUs) and ICAR institutions;
- (ii) Promote farm mechanization among stakeholders by way of on-field and off-field training and demonstrations.
- (iii) Provide financial assistance to farmers for procurement of farm machinery and implements
- (iv) Establish custom hiring centres of location and crop specific farm machinery and implements
- (v) Provide financial assistance to small and marginal farmers for hiring machinery and implements in low mechanized regions.

### **4.0 Mission Components**

**4.1 Promotion and Strengthening of Agricultural Mechanization through Training, Testing and Demonstration:** Aims to ensure performance testing of agricultural machinery and equipment, capacity building of farmers and end users and promoting farm mechanization through demonstrations.

**4.2 Demonstration, Training and Distribution of Post Harvest Technology and Management (PHTM):** Aims at popularizing technology for primary processing, value addition, low cost scientific storage/transport and the crop by-product management through demonstrations, capacity building of farmers and end users. Provides financial assistance for establishing PHT units.

**4.3 Financial Assistance for Procurement of Agriculture Machinery and Equipment:** Promotes ownership of various agricultural machinery & equipments as per norms of assistance.

**4.4 Establish Farm Machinery Banks for Custom Hiring:** Provides suitable financial assistance to establish Farm Machinery Banks for Custom Hiring for appropriate locations and crops.

**4.5 Establish Hi-Tech, High Productive Equipment Hub for Custom Hiring:** Provides financial assistance to set up hi-tech machinery hubs for high value crops like sugarcane, cotton etc.

**4.6 Promotion of Farm Mechanization in Selected Villages:** Provides financial assistance to promote appropriate technologies and to set up Farm Machinery Banks in identified villages in low mechanised states.

**4.7 Financial Assistance for Promotion of Mechanized Operations/hectare Carried out Through Custom Hiring Centres:** Provides financial assistance on per hectare basis to the beneficiaries hiring machinery/equipments from custom hiring centres in low mechanized areas.

**4.8 Promotion of Farm Machinery and Equipment in North-Eastern Region:** Extends financial assistance to beneficiaries in high-potential but low mechanised states of north-east.

## 5.0 POSITION OF ONGOING SCHEMES

Farm Mechanization programmes are also being implemented through other missions/schemes such as RKVY, MIDH, NMOOP & NFSM, which would continue to be implemented subject to these guidelines. The Central Sector schemes ‘Promotion and Strengthening of Agricultural Mechanisation through Training, Testing and Demonstration’ and ‘Post Harvest Technology & Management’ stand merged with this Sub-Mission.

## 6.0 Mission Structure

### 6.1 National Level

The Mission will have a National Steering Committee (NSC) under Chairmanship of Secretary (A&C), with following composition:

<b>Secretary, Department of Agriculture &amp; Cooperation</b>	<b>Chairman</b>
Additional Secretary & Financial Advisor, DAC	Member
Additional Secretary (M&T)	Member
Joint Secretary (RKVY), DAC	Member
Joint Secretary (MIDH), DAC	Member
Joint Secretary (Crops), DAC	Member
Joint Secretary (M&T), DAC & Mission Director	Member Secretary
DDG (Engg.) ICAR, Agriculture Commissioner, Horticulture Commissioner, ADC(M&T), DC (M&T), Directors FMTTIs	Experts Members

NSC will be the policy formulating body giving overall direction and guidance to the Mission, and will monitor and review its progress and performance. It will be empowered to lay down and amend operational guidelines, other than those affecting financing pattern. NSC shall meet at least two times in a year.



## 6.2 Executive Committee

The Executive Committee (EC) will comprise of the following members:

Additional Secretary (M&T)	Chairman
Joint Secretary (M&T), DAC	Member Secretary
ADG(Engg), ADG(P.Engg.) ICAR, ADC(M&T), ADC(Crops), ADC(Horticulture), DC(M&T) and Director, CFMTTI Budni	Experts Members

- (i) EC will oversee activities of the Mission and approve Action Plans of various states in accordance with the prescribed norms.
- (ii) EC is empowered to reallocate resources across States and components and approve projects on the basis of approved financial assistance norms. EC will use its discretion in approving only those components of a project, for which cost norms/pattern of financial assistance have been approved by the EFC/CCEA.
- (iii) EC is also empowered to approve special interventions under flexi funds but within the approved components of SMAM and subject to ratification by National Steering Committee. EC will ensure smooth functional linkages among different agencies. EC shall meet as frequently, as required.
- (iv) M&T Division in DAC will provide necessary technical support to EC to administer the scheme as under:
  - a) Indicate tentative provisions for each component at the beginning of Financial Year (March- April) to facilitate the States in preparing Annual Action Plan (AAP) as per format at Annexure -VII.
  - b) Visit the states regularly and frequently to provide guidance in organizational and technical matters.
  - c) Help in the implementation, monitoring and evaluation of various interventions in the mission and provide feedback reports to the Mission Director
  - d) Compile materials for capacity building, conduct and participate in the promotional events such as, workshops/seminars/exhibitions on different subjects in different regions of the country.
  - e) Undertake publicity/information campaign to create awareness on farm mechanization, document and disseminate the success stories.
  - f) Assist the State Agencies in concurrent evaluation based on performance indicators

- g) Assess state-wise farm power status, availability and existing gap and identify the future requirements
- h) Prepare the agenda for the EC and NSC meetings
- i) 1% of annual outlay of the Sub-Mission will be earmarked for incurring administrative and other contingent expenses towards the above.

### 6.3 State Level

6.3.1 The State Level Executive Committee (SLEC) will comprise of the following:

Agricultural Production Commissioner/ Principal Secretary	Chairman
Director (Agriculture)/Director (Agricultural Engineering)	Member Secretary
Director (Horticulture)	Co-Member Secretary
Representatives of SAUs/ICAR/Other line Departments	Experts Members

The Committee's main function will be to vet the Annual Action Plan prepared by the State nodal department for implementation of the Sub-Mission. The SLEC will oversee the implementation of mission Components of the respective States through regular meetings with the nodal and other line department. It will also provide inputs to the Executive Committee for appropriate policy formulation.

6.3.2 Department of Agriculture or Dept. of Agricultural Engineering, wherever available, shall be the nodal department at the State level for implementation of this Mission. It will provide necessary support to SLEC and will have the following functions:

- (i) Prepare Mission Implementation Plan (MIP) for entire plan period for achieving the farm power availability to 2 kW/ha, primarily focusing on increasing farm mechanization with location specific advantages and easier adaptability for improved production and productivity.
- (ii) List districts as per the farm power availability as per formula at Annexure-III. Select the districts under AAP as per objective criteria
- (iii) Prepare indicative list of machines & equipment which should not be eligible for subsidy under the Mission. While preparing the negative list, State should consider various aspects including fact whether an equipment/machinery can be run commercially without subsidy.
- (iv) Utilize, to the extent possible, services of Subject Matter Specialist (Agricultural Engineering) available with State Government, KVKs, SAUs and ICAR institutes functioning in the State in the mission programmes.

- (v) Prepare annual State Level Action Plan in consonance with Mission's goals and objectives as per the format at Annexure-VII taking into account tentative outlay of State as communicated by DAC at the beginning of Financial Year (March- April).
- (vi) 16% of the total allocation for SCP and 8% for TSP will be earmarked. The allocation to SC/ST farmers will be made proportionate to their population in the district. 30% of allocation will be earmarked to the woman beneficiary. Utilize at least 50% of the allocation for small and marginal farmers.
- (vii) 10% of the AAP allocation would be earmarked as flexi-fund to meet the following objective:
  - a) To provide flexibility to States to meet local needs and requirement within the overall objective of SMAM;
  - b) To pilot innovations and improved efficiency within the overall objective of the Scheme and its expected outcomes;
  - c) To undertake mitigation/restoration activities in case of natural calamities in the farm mechanization sector.
- (viii) Enlist manufacturers/suppliers who have tested their products either from FMTTIs or any identified institute by DAC and fix the cost of agricultural machinery and equipment on the basis of quality inspection and field performance evaluation for supply under various components of SMAM
- (ix) Ensure suitable integration of AAP with other schemes like Rashtriya Krishi Vikas Yojna (RKVY), National Food Security Mission (NFSM) and Mission for Integrated Development of Horticulture (MIDH) etc.
- (x) Compile District wise Action plan into State Action Plan and submit to the State level committee for approval and thereafter forward the same to EC.
- (xi) Receive funds from DAC for implementing organizations and oversee, monitor & review implementation of the programmes
- (xii) Organize workshops, seminars and training programmes for all interest groups/associations at State level.
- (xiii) Operationalize Information Communication Technology (ICT) enabled management system upto grassroot level
- (xiv) Conduct independent evaluation to assess the performance of the Mission in their States.
- (xv) 1% of total allocation to the State may be earmarked for administrative and other contingent expenses. Expenditure in excess of 1% limit will be met by the States from their own resources.

## 6.4 District Level

6.4.1 The District Level Executive Committee (DLEC) will comprise of the following:

Collector	Chairman
Dy. Director (Agriculture)/Executive Engineer (Agricultural Engineering)	Member Secretary
District Agriculture/Horticulture Officer	Co-Member Secretary
Representatives of line Departments, SAUs/ICAR, nominated progressive farmers, representatives from SHG, Project Director ATMA, representatives from lead banks/NABARD	Experts Members

6.4.2 DLEC will be responsible for carrying forward the objectives of the Mission for project formulation, implementation and monitoring. The office of DD (A)/JD (A) / EE (A) shall be the district nodal agency with following functions:

- (i) Identify the areas of low ratio of farm power availability /areas with large number of small and marginal holdings for implementation of farm mechanization components.
- (ii) Identify beneficiaries (Farmers, Self Help Groups (SHGs), User Groups, Cooperative Societies, Farmer Producer Organizations (FPOs) and Entrepreneurs) to avail the benefits of SMAM in transparent and time bound manner. Identify entrepreneurs/SHGs to establish custom hiring centres.
- (iii) Tie up with the Banks for credit requirements of the beneficiaries
- (iv) Ensure that the benefits under various schemes of DAC such as RKVY, MIDH, NMOOP, NFSM etc. are not extended repeatedly to the same beneficiary.
- (v) Prepare district AAP with physical and financial targets under each component.
- (vi) Utilize online application software for the entire process of identification and selection of beneficiary, processing of applications and disbursement of financial assistance to the beneficiary after ensuring the proof of procurement of equipment/inputs as per provisions and norms.
- (vii) Receive funds from State Nodal Department for implementing the programmes.
- (viii) Make efforts for direct transfer of financial assistance to the farmers/beneficiary on the basis of ADHAR No. wherever infrastructure is functional in the district.

- (ix) Monitor & display details of approved programme, all activities undertaken and name of beneficiaries, expenditure incurred etc. at the Panchayat Bhavan/prominent public place in the cluster/village level and get it placed before the concerned Gram Sabha annually from the point of social audit.
- (x) Study the impact on production and productivity after the implementation of the programmes and forward the reports to the State nodal Department.

6.4.3 ICAR institutes /SAUs and KVKs functioning in the district will provide technical support in formulation of the district action plan, its implementation and monitoring. The technical staff will be sourced from these organizations for imparting training to the farmers and extension personnel.

## **6.5 Role of Panchayati Raj Institutions (PRIs)**

- (i) The State Government and other designated implementing agencies, to the extent possible, will ensure active participation of the Panchayati Raj Institutions (PRIs) in the implementation of this Mission.
- (ii) PRIs may also be involved in publicizing the demonstrations and training of farm equipment and in ensuring participation of farmers from nearby areas for widespread dissemination of technology.

## **7.0 Procedure for Approval & Fund Flow Mechanism**

**7.1 AAP submission:** AAP duly approved by SLEC along with the minutes of SLEC, shall reach DAC for examination, deliberation and final approval. M&T Division in DAC will examine AAP before it is placed before the EC for consideration, sanction and approving allocation of funds to States.

7.2 DAC will allocate the funds to the State and Implementing Agencies based on the following parameters:

- a) 50% weightage to the proportion of states cultivable area to total cultivable area of the country; and
- b) 50% weightage to the proportion of state area under small and marginal holdings to total area under small and marginal farmers in the country.
- c) Release of flexi-funds would be made on a pro-rata basis along with normal releases of SMAM. In other words, no separate system for release or for utilization certificate for flexi-funds would be required.

- (i) Funds would be released to the States /Implementing Agencies in two Installments.
- (ii) The release of the first installment will be upon the approval of AAP and release of 2<sup>nd</sup> installment on submission of Utilization Certificate, detailed Physical and Financial Report etc. as per relevant provisions of GFRs.
- (iii) Only 10% of the total unspent balance will be allowed to be carried over to the next financial year. The remaining unspent balance will be adjusted in the amount to be released as 2<sup>nd</sup> installment.
- (iv) In case a State Government /Implementing agency does not seek release of the 2<sup>nd</sup> installment, the unspent balance over and above 10% will be deducted from the release of 1<sup>st</sup> installments during the next fiscal.
- (v) No release of 2<sup>nd</sup> installments would be made after January, only the re-allocated funds will be released to the better performing States. These measures would help in timely and optimum utilization of resources.

## **8.0 Monitoring**

- (i) The Mission envisages a coordinated approach for monitoring and evaluation with active involvement of implementing agencies, beneficiaries and other stakeholders.
- (ii) A combination of periodic desk review, field visits and web-based mechanism will be adopted for releasing funds, monitoring physical and financial progress and monitoring the progress of other Mission interventions at National level by Mechanization and Technology Division (M&T) in the DAC.
- (iii) All implementing agencies will ensure that a report regarding utilization of funds released to them and the physical and financial progress of the SMAM are submitted to DAC regularly, as per prescribed proforma at Annexure VIII and IX respectively.

## **9.0 Impact Assessment, Periodic Evaluation and Reporting**

- (i) DAC will evaluate efficacy of this Mission on a 'Two or Three yearly' basis through a 'third party'. The agency will assess the efficacy, performance, outcome and shortcomings of the Mission and recommend suitable corrective measures.
- (ii) Information and communication technology will be deployed extensively for ensuring transparency in the implementation process and effective monitoring of the Mission programme.

## 10.0 Expected Outcome

The Mission envisages inclusive growth of farm mechanization in the country in the next five years in terms of farm power availability, human resource development, and productivity and quality assurance of agricultural machinery.

## 11.0 Interventions

Interventions proposed under the eight components under SMAM are given below whereas norms of financial assistance are summarized in Annexure-II.

### 11.1 Central Sector components namely,

- (a) **Promotion and Strengthening of Agricultural Mechanization through Training, Testing and Demonstration; and**
- (b) **Demonstration, Training and Distribution of Post Harvest Technology and Management (PHTM)**

#### Will have the following interventions:

- (i) Training in field of farm mechanization & post harvest management
- (ii) Testing of agricultural machines and equipments for performance evaluation
- (iii) Demonstration of newly developed agricultural/horticultural equipments and post harvest technologies at farmers' fields.
- (iv) Establishment of post harvest technology for primary processing in the production catchments

#### 11.1.1 Implementing Agencies for Central Sector Components

Training	1) FMTTIs 2) State identified institutions 3) ICAR institutions 4) ATMA institutions
Testing	1) FMTTIs 2) Identified State Testing Centres 3) Other Government/ICAR institutions
Demonstration	1) FMTTIs 2) State Governments 3) ICAR 4) ATMA 5) PSUs of GOI
Establishment of PHT	1) State Governments

The implementing agencies will have the following functions:

- (i) Annual Action Plans of components 'Training', 'Testing' & 'Demonstration' will be prepared by FMTTIs and ICAR as per Annexure-VII and submit the same to the M&T Division of DAC for approval of EC
- (ii) Identified State Testing Centres will submit their action plans with regard to 'Testing' component to the state nodal agency for incorporating in State AAP as per Annexure-VII
- (iii) State identified institutions & ATMA institutions will submit their action plans with regard to 'Training' & 'Demonstration' components to the state nodal agency for incorporating in State AAP as per Annexure-VII.
- (iv) For the component of 'Establishment of Post Harvest Technology', State Governments will incorporate the requirements in AAP as per Annexure-VII
- (v) All the implementing agencies will operationalize ICT enabled MIS for effective and transparent implementation/monitoring of the components being implemented by them.

#### **11.1.2 Training:**

- (a) Implementing Agencies:** FMTTIs, State identified institutions, ICAR & ATMA institutions
- (b) Training Calendar:** FMTTIs and identified institutions for outsourcing of training will publish annual training calendar on their websites and communicate to all the State Governments, ATMA agencies and implementing agencies. Publicity of the training programmes will also be made through the print and other electronic media on quarterly basis. The training component in the AAP will be integrated with ATMA programmes.
- (c) Beneficiaries:** For user level courses (U1 – U13), District nodal agencies will identify and sponsor beneficiaries such as Farmers, Members of SHGs, FPOs, rural youth and other entities on receipt of training calendar. If required, the training institutions will also invite applications for specific courses from the targeted district under the State AAP.

Trainers, Officials of State Governments, Technicians, Entrepreneurs and Manufacturers etc. will apply to the respective FMTTIs for appropriate courses.



- (d) Training Courses:** FMTTIs will conduct training programmes as per Annexure-IV

The State identified institutions will conduct user level training programmes (U1 to U13) and Technician level courses (T1-T9) as given in Annexure IV.

Training in post-harvest management will also be a part of training calendar. The training courses will be designed by the implementing agencies in consultation with CIPHET Ludhiana and AICRP Centres in the region.

- (e) Financial Assistance:** Trainees admitted/sponsored by the state nodal agencies to the User Level Courses (U1-U13) at the FMTTIs will be paid stipend @ Rs. 500/- per week per trainee. Travel expenses to the trainees admitted in these courses will be paid on actual basis by ordinary mode of transport from their place of residence to the training institute and back.

Course fee will be charged for all other courses (except U1-U13) as detailed in Annexure IV.

The training institutions will claim Rs 4000/- per person per week for the conduct of User Level (U1-U13) & Technician level courses (T1-T9). This includes:

- (i) stipend of Rs. 500/- per trainee per week
- (ii) Actual to and fro travel expenses by ordinary mode of transport in ordinary class, upto maximum of Rs. 500/- per trainee
- (iii) boarding and Lodging Charges @ Rs. 1500/- per trainee per week
- (iv) Institutional charges (including stationery, training material, honorarium) @ Rs. 1500/-per trainee per week

- (f) Monitoring and evaluation:** All implementing agencies will monitor the outcome of training in terms of employment generation, self-employment, improvement in productivity/skills etc.

### 11.1.3 Testing:

- (a) Implementing Agencies:** FMTTIs, Identified State Testing Centres, Other Government/ICAR institutions
- (b) Beneficiaries:** Manufacturers of agricultural machines, R&D institutions engaged in development of farm machinery.

**(c) Standards:** Testing will be carried out as per relevant Indian Standards of BIS. If, the Indian Standard for any machine is not available, the testing may be carried out as per any other relevant International standard. Based on these standards test codes will be applied for various categories of agricultural machinery and implements. All such test codes will be communicated by the M&T Division of DAC to all the centres for uniform procedures of testing.

**(d) Implementation:**

- (i) CFMTTI, Budni will test tractors, power tillers, combine harvesters, and other self-propelled machines. It will also test tractors, power tillers, combine harvesters, agricultural trailers, engines for mass emission of exhaust gasses and other machines for compliance under CMVR,
- (ii) NRFMTTI, Hissar will test Combine harvesters, plant protection equipments, irrigation pumps, diesel engines and other self propelled crop production equipments and machines. It will also test combine harvesters for compliance under CMVR.
- (iii) SRFMTTI, Garladinne will test power tillers, self-propelled crop production machines/equipments, including power drawn agricultural machines and equipments.
- (iv) NERFMTTI, Biswanath Chariali (Assam) will test power drawn agricultural machines and equipments including non-self-propelled agricultural equipments in order to meet requirements of manufacturers of Eastern and North Eastern Region.
- (v) The identified institutions as per Annexure -V or the institutions as may be recognized in future shall test all non-self-propelled agricultural machines/equipment.

**(e) Testing charges:** All the testing institutions will follow the testing charges fixed by DAC as per Annexure VI (as revised from time to time). Service Tax on the testing charges will be as per the applicable rates. The testing charges received will be deposited in the revenue account of Government.

**(f) Monitoring:**

- (i) Machines will be tested at the request in writing of the manufacturer/accredited importers referred to as "Applicant" herein-after. Online application software will be developed for receiving applications and processing the same.

- (ii) The application should be accompanied with all relevant technical specification, operator manual, workshop manual etc. of the machine as well as detailed postal address, email id and phone number of the applicant.
- (iii) The application will be scrutinized by the testing institutions and the shortcomings if any will be communicated to the applicant within a week.
- (iv) The applications fulfilling requirements will be accepted by the testing institute and the date for starting the test will be informed to the applicant within a week.
- (v) Testing of the machine will be taken up as per the relevant standard within 15 days from the date of accepting the application.
- (vi) After completion of all tests, a draft report in the standard format will be released to the applicant for comments and the applicant should submit his comments within 15 days.
- (vii) After receipt of comments, necessary changes in the draft report as per agreed comments may be made in the report and the final report may be released. The testing institutions will also bring out one page salient features of the machine which could be easily understood by the users of the machine.
- (viii) Test reports released by the designated institutions will have validity across the country and accepted by all the States and UTs for financial assistance and implementation of other Government Schemes where test reports are required.
- (ix) The testing institutions will publish the list of test reports quarterly and forward the same to the DAC for uploading it on the website of the Department. The institutions which do not carry out testing as per the guidelines of the Department and as per relevant test codes and upload the test reports on the website will be liable for cancellation of recognition.
- (x) All the testing institutes will ensure that the testing is completed within the stipulated time frame and there is no waiting list for testing.

**(g) Financial Assistance:**

- (i) Proposals for augmenting the facilities and infrastructure for testing shall be included in the AAP. The identified institutions for testing will be provided one time grant of Rs. 1.5 crores each as per their proposals in this regard. In a financial year 10 such identified institutions will be

considered for providing grants. The grants provided will not be utilized to meet the recurring expenditure on testing activities and purchase of vehicles etc.

#### **11.1.4 Demonstration**

Field demonstrations of package of machines/equipments will be conducted in the districts identified for AAP

**(a) Implementing Agencies:** FMTTIs, State Governments, ICAR, ATMA, PSUs of GOI

**(b) Objectives:** (i) To conduct large scale demonstrations on cropping system based approach to promote mechanization in districts with low farm power availability (ii) To Introduce improved/newly developed agricultural implements and machines and post harvest technology in crop production/post harvest management system (iii) All demonstrations will be conducted with participation of custom hiring centres established in the districts. Also, manufacturers may be engaged as partners for demonstration.

**(c) Identification of Beneficiaries:** Farmers, SHG of farmers, Users Groups, Cooperative Societies, entrepreneurs etc will be identified by the district nodal agencies as per the broad criteria given under 6.4.2.

**(d) Area of operation:**

- (i) In case of State level agencies, demonstrations will be conducted in villages selected in the AAP districts.
- (ii) Central implementing agencies will also select districts/villages in the concerned State AAP
- (iii) Demonstrations will be conducted in a contiguous block of 100 ha or more. Size of block for hill and North-Eastern States will be 10 ha. Demonstrations should be evenly distributed in the selected blocks.
- (iv) At least 50% of the total demonstrations will be conducted on cropping patterns of selected villages. These will be done by CHCs in those districts. Remaining 50% demonstrations will be carried out on new technology machines/equipments with the engagement of manufacturers/Hi-tech equipment hubs
- (v) All farmers in a block would be included in demonstration. For each farmer, at least 0.4 ha area will be included.

**(f) Identification of powered machines/equipments to be demonstrated:** Type of equipment/machine to be demonstrated will be based on requirements of operations in a cropping season. This will be decided by implementing agencies in consultation with State Agricultural functionaries/State Agricultural Universities, ICAR Centres through their Regional Research Stations/KVKs located in the area while preparing the AAP.

**(g) Financial Assistance:** Implementing agencies will hire the machines to be demonstrated from the Custom Hiring Centres/manufacturers. Government of India will provide 100% assistance @ Rs. 4000 per hectare upto 100 ha per season. This includes:

- (i) Charges towards hiring of machines alongwith implements/ self propelled machines– Rs. 2000 per ha.
- (ii) Expenditure towards hands on training – Rs. 1500 per ha.
- (iii) Miscellaneous expenditure such as expenditure towards transport, labour, publicity and printing of technical literature etc – Rs. 500 per ha

Expenditure over and above specified limits will be borne by respective implementing agencies

No expenditure will be met from the scheme for recruitment of staff, TA/DA of staff, purchase of tractor/power tiller, computer, video camera, etc. or for any infrastructural development.

**(h) Monitoring:**

- (i) All demonstrations will be carried out under close supervision of Implementing Agency which will record and document observations. Analysis shall be made to bring out cost effectiveness and benefits of technology. Success story of demonstrations will be documented and disseminated for the benefits of other farmers in the State and also for farmers of other States.
- (ii) State Department of Agriculture/ Other Implementing Agency concerned will ensure effective implementation and supervision of Scheme.
- (iii) Officers from Farm Machinery Training and Testing Institute at Budni (M.P.), Hissar (Haryana), Garladinne (A.P.), Biswanath Chariali (Assam) and officers from the Ministry of Agriculture shall be undertaking random visits to see actual demonstration and assess performance of equipment demonstrated and their acceptability among farmers.

### 11.1.5 Establishment of Post Harvest Technology

- (a) **Implementing Agencies:** State Governments
- (b) **Identification of Technologies:** Technical guidance on the available post harvest technologies will be provided by CIPHET Ludhiana and also by other ICAR/CSIR/SAU centers. These may relate to
  - (i) Primary processing & value addition
  - (ii) Bi-product management
  - (iii) Low cost scientific storage
  - (iv) Transit storage
  - (v) Transport of perishable farm produce
- (c) **Identification of Beneficiaries:** Individual farmer, SHG/UG of farmers/ Cooperative Societies of Farmers/FPOs/Entrepreneurs will be identified by the district nodal agencies as per the broad criteria given under 6.4.2
- (d) **Financial assistance:** PHT units shall be established in the production catchments with 50% assistance from the Government of India limited to Rs. 1.25 lakhs per machine/technology. (Additional 10 % assistance limited to Rs. 1.50 lakhs will be available for SC, ST, small & marginal farmers, women, and NE States beneficiary). Remaining cost will be borne by beneficiary.
- (e) **Implementation & Monitoring:** State Department of Agriculture will ensure effective implementation and supervision of Scheme by officers specially designated for the purpose.

## **11.2 Interventions under Centrally Sponsored Scheme**

### **11.2.1 Financial Assistance for Procurement of Agriculture Machinery and Equipment**

**(a) Implementing Agencies:** State Governments

**(b) Implementation & Monitoring:**

- (i) State Department of Agriculture will ensure effective implementation and supervision of Scheme by officers specially designated for the purpose.
- (ii) It will be ensured that the benefits under various other schemes of DAC are not extended to the same beneficiary twice.
- (iii) Manufacturers/suppliers that have tested their products either from FMTTIs or any identified institute by DAC will be enlisted.
- (iv) Crop specific agricultural equipment /machinery tested and available with the enlisted manufacturers will be offered to the beneficiaries.
- (v) Complete freedom to beneficiary will be available for selection of agricultural machinery and equipment as per his/her choice.
- (vi) SLEC will approve cost of agricultural machinery and equipment on the basis of quality inspection and performance evaluation reports for supply in the financial year.

**(c) Identification of Beneficiary:** Beneficiaries will be identified by the district nodal agencies as per the broad criteria given under 6.4.2

**(d) Financial Assistance:** will be available to the selected beneficiaries as per approved pattern of assistance given at Annexure II (c)

### **11.2.2 Farm Machinery Banks for Custom Hiring**

**(i) Objectives of custom hiring enterprises**

- (i) To promote mechanization in districts with low farm power availability
- (ii) To provide hiring services for various agricultural machinery/implements applied for different operations.

- (iii) To expand mechanized activities during cropping seasons in large areas especially in small and marginal holdings.
- (iv) To involve manufacturers/KVKs in operation and maintenance of machines in the hiring centres
- (v) To Introduce improved/newly developed agricultural implements and machines in crop production

**(ii) Area of Operation & Composition of Custom Hiring Centre**

- (i) Custom hiring centres will be established in the districts identified for implementation in the State AAP.
- (ii) The districts in State AAP will include villages having low farm power availability and large area under small and marginal holdings.
- (iii) Each CHC will have the capacity to cover minimum area of 10 ha/day and at least 300 ha in a cropping season. Machines can be hired for entire operations from land development to residue management
- (iv) Each CHC will be set up on specific crop based, cost based and cluster based approach. Each custom hiring centre will have small crop specific machinery suitable for local requirement for mechanized farming under small and marginal holdings.
- (v) The following parameters may be chosen for selection of village/Town for setting up of custom hiring centers:
  - (a) Low ratio of farm power availability.
  - (b) Low number of tractor population
  - (c) Small & marginal operational Holdings
  - (d) Less productivity of food grains but potential to enhance productivity.
- (vi) District level agencies will identify/invite application of entrepreneurs including manufacturers to set up CHCs
- (vii) Any business model can be adopted for expanding the reach of mechanization through custom hiring centres. It will be necessary to maintain, upgrade the CHCs from time to time.

**(iii) Identification of machines/Implements:**

- (i) Entrepreneurs will select such machinery/implements appropriate for the crops grown in the identified districts
- (ii) Entrepreneurs will select machinery/implements for entire operations of a particular crop grown in that area



- (iii) The capacity of the machines will be selected on the basis of area to be covered in a cropping season.
- (iv) Machines/equipments will be selected from the list at Annexure II(c)

**(iv) Procurement of Machinery:** Procurement would be from the approved suppliers/manufacturers. The beneficiary is free to procure any brand as per his choice from the approved list. However, only tested equipments from either FMTTIs or designated Institute from DAC are eligible for financial assistance for establishing the custom hiring centres.

**(v) Financial Assistance:**

- (i) Financial assistance for setting up of custom hiring centres will be available to rural entrepreneurs, progressive farmer and SHGs as per pattern of assistance as indicated in Annexure II (d)
- (ii) The custom hiring centres having the project cost more than Rs. 25 lakh will be established under the model of credit linked back ended financial assistance.
- (iii) The bank will lock the financial assistance released to them for a period of 4 years. The beneficiary will repay the complete bank loan within the period of not less than 4 years. The Beneficiary will not be allowed to transfer/ sell/ mortgage the CHC to any one before the completion of 6 years.

**(vi) Monitoring:**

- (i) The established CHCs will be provided technical assistance from KVKs/enlisted manufacturers/Approved Testing Centres, FMTTIs and ICAR centres to maintain and train CHC entrepreneurs.
- (ii) The custom hiring centres established under the mission will be supervised by the District Agriculture Officer for its operation so that custom hiring charges are reasonable and affordable to small and marginal farmers

**(vii) Partnerships:** The CHCs can be established by the manufacturers in PPP mode. They may also be encouraged to undertake maintenance of the machinery for a given number of CHCs. They may undertake exposure visits of the beneficiaries in other districts/states. They may enter into annual maintenance contracts for supply of spare parts

### **11.2.3 Hi-Tech, High Productive Equipment Hub for Custom Hiring:**

#### **(a) Objectives**

- (i) To promote utilization of hi-tech, high value machines for higher productivity
- (ii) To provide hiring services for various high value crop specific machines applied for different operations.
- (iii) To expand mechanized activities during cropping seasons to cover large areas
- (iv) To involve manufacturers for setting up of such centres

#### **(b) Area of Operation & Composition of Hi-tech Hub**

- (i) Hubs will be established in the districts identified for implementation in the State AAP having larger area under cash and other value crops.
- (ii) Each hub will have the capacity to cover at least 500 ha in a cropping season. Machines can be hired for crop specific operations
- (iii) The following parameters may be chosen for selection of village/Town for setting up of custom hiring centers:
  - a) Large area under cash crops/high value crops
  - b) High potential areas
- (iv) District level agencies will identify/invite application of entrepreneurs including manufacturers to set up hubs
- (v) It will be necessary to maintain and upgrade the hubs from time to time.

#### **(c) Identification of machines:**

- (i) Entrepreneurs/manufacturers will select such machinery appropriate for the cash and other high value crops grown in the identified districts
- (ii) The type and capacity of the machines will be selected on the basis of area to be covered in a cropping season.

**(d) Financial Assistance:**

- (i) Financial assistance for setting up of hubs will be available to entrepreneurs/ manufacturers as per pattern of assistance as indicated in Annexure II (e)
- (ii) Hubs will be established under the model of credit linked back ended financial assistance.
- (iii) Bank will lock the financial assistance released to them as per the terms of repayment of loan. The Beneficiary will not be allowed to transfer/ sell/ mortgage the hubs to any one.

**(e) Monitoring:**

- (i) The established machinery hubs will be provided technical assistance from KVKs/ manufacturers/Approved Testing Centres, FMTTIs and ICAR centres for maintenance and training
- (ii) The hubs established under the mission will be supervised by the District Agriculture Officer for its operation so that hiring charges are reasonable and affordable to farmers.

**11.2.4 Promotion of Farm Mechanisation in Selected Villages**

**(a) Objectives:**

- (i) To establish farm machinery banks by the Cooperative Societies of farmers, Self Help Group of Farmer, FPOs etc. in the selected villages of low mechanized states so as to encourage members to take up appropriate mechanized operations
- (ii) To conduct demonstrations in large areas with the assistance of Custom Hiring Centres set up under component (4).

**(b) Area of Operation:**

- (i) Districts with low farm power availability will be selected in each state
- (ii) Villages will be selected from these districts
- (iii) SHGs, Cooperative Societies, FPOs and any such other entities in these villages will be eligible for financial assistance for setting up of farm machinery banks for operating machines and equipments by the member beneficiaries

(iv) Custom Hiring Centres set up under component (4) shall be involved in conducting demonstration of the machines and equipments as per the guidelines indicated in para 11.1.4

(c) **Financial Assistance:** Each village will be eligible for setting up of farm machinery banks upto a maximum project cost of Rs. 10 lakhs. Financial assistance @ 80% of the project cost will be provided for such machinery banks. For demonstration, financial assistance will be provided as per the guidelines given in 11.1.4

(d) **Monitoring:** Supervised by the District Agriculture Officer for operating cost of Farm Machinery Banks and demonstrations to be conducted by CHCs.

#### 11.2.5 Assistance for Mechanized operations.

(a) **Objective:** To provide per hectare assistance to the beneficiaries in the villages identified under 11.2.4. Beneficiaries will utilize services of farm machinery banks set up by group of farmers, cooperative societies and any such other entities, for various farm operations.

(b) **Financial Assistance:** Financial assistance will be available to the beneficiaries upto a maximum of 1 ha area as per following norms:

(i) For tractor/power operated operations – Rs. 2000/ha per farmer per year

(ii) For animal drawn mechanized operations- Rs. 1000/ha per farmer per year

(iii) For manual operations – Rs. 750/ha per farmer per year

(c) **Monitoring:** Supervised by the District Agriculture Officer for selection of operation and area to be covered under each operation

#### 11.2.6 Promotion of Farm Machinery and Equipment in North-Eastern Region

(a) **Objectives:**

(i) To increase pace of mechanization adoption in North-Eastern States. Some of the regions in these States are not able to leverage the advantages of farm mechanization due to constraints like hilly topography, socio-economic conditions, high cost of transport, lack of institutional financing and lack of farm machinery manufacturing industries. Therefore, these states require light weight machines and equipments suitable for these regions.

(ii) To encourage the farmers for adopting good agricultural practices in specific crops/areas.

**(b) Implementation & Monitoring:**

- (i) In order to provide suitable mechanized solutions in the identified areas of these States, separate allocation over and above the allocation in different components of the submission will be made.
- (ii) The States will identify such areas and prepare project proposals as per the pattern of assistance as indicated in Annexure –II (h)
- (iii) Project proposals submitted by the States will be examined in DAC and approved by EC for financial assistance.
- (iv) State Department of Agriculture/ Other Implementing Agency concerned will ensure effective implementation and supervision of Scheme by officers specially designated for the purpose.

- (c) Financial Assistance:** Financial assistance will be available to the beneficiaries as per the pattern of assistance indicated in Annexure-II (h)

**11.2.7 Exposure visits:**

- (a) In order to enrich the knowledge base of the technical personnel/progressive farmers involved in the mission, exposure visit/training of technical staff /officers at International organizations like IRRI, ICRISAT, CSAM China, NIAE Korea, JICA Japan etc. or any other research organization in farm mechanization within the country and abroad would be organized.
- (b) A sum of Rs. 2.0 Crore will be earmarked for the entire plan period.
- (c) EC would approve the proposal of exposure visit/ training.

**12.0 Activity Mapping:** Enclosed as Annexure-I

**Annexure-I**

**Activity mapping for effective devolution of funds, functions and functionaries under Sub-Mission on Agricultural Mechanization**

S.N	Components	Allocation (Rs.Cr.)	Percentage Allocation based on function(s)		Implementing Agencies	Remarks
			Centre	State		
1	Component No.1 (Existing)	As per Annual Budget	100	0	FMTTIs, State identified institutions, ICAR institutions, ATMA institutions, PSUs of GOI, State Governments	1) Implementing agencies will be responsible for coordination with local and State Governments. 2) Annual Action Plan will build on the activities at the village level in district with low farm power availability
2	Component No.2(Existing)		100	0		
3	Component No.3(New)		75	25	State Governments	
4	Component No.4(New)		75	25	State Governments	
5	Component No.5(New)		75	25	State Governments	
6	Component No.6(New)		75	25	State Governments	
7	Component No.7(New)		75	25	State Governments	
8	Component No.8(New)		75	25	State Governments of 8 North-Eastern States	

1. Promotion and Strengthening of Agricultural Mechanization through Training, Testing and Demonstration
2. Demonstration, Training and Distribution of Post Harvest Technology and Management (PHTM)
3. Financial Assistance for Procurement of Agriculture Machinery and Equipment
4. Establish Farm Machinery Banks for Custom Hiring
5. Establish Hi-Tech, High Productive Equipment Hub for Custom Hiring
6. Promotion of Farm Mechanisation in Selected Villages
7. Financial Assistance for Promotion of Mechanized Operations/hectare Carried out Through Custom Hiring Centres
8. Promotion of Farm Machinery and Equipment in North-Eastern Region

### Functions:

S No	Activity Description	Union Government	State Government	District Administration	Local Government			Implementing Agency
					Panchayati Raj System			
					Zilla Parishad	Intermediate Panchayat	Village Panchayat	
1	Setting Standards	Formulate guidelines and cost norms for SMAM	Disseminate guidelines and norms at District Level, preferably in local language	Implement guidelines	Disseminate guidelines at the block level and below	--	--	Maintain the physical and financial progress
2	Planning	Provide the tentative outlays for preparing the State Annual Action Plan	1.Prepare strategic plan 2. Prepare State Annual Action Plan	Formulate District Action Plan	Contribute in preparing District Annual Action Plan	--	Contribute in selection of equipments for demonstration, beneficiaries in capacity building and availing the assistance	
3	Implementation of Mission	Release of funds to States by DAC	Release of funds to District level	--	Prioritize projects as per requirement of the Districts.	Select location of activity within the district, select beneficiaries	Contribute in selection of equipments for demonstration, beneficiaries in capacity building availing the assistance	
4	Monitoring and Evaluation of Projects	1.Review quarterly progress 2.Conduct midterm and impact evaluation	Furnish the physical and financial progress quarterly	--	Review progress at panchayat level and provide feedback to State Governments	--	Provide feedback to District Panchayat	

### C. Functionaries:

S.	Union Government	State Government	District Administration	Local Government		
				Panchayati Raj system		
				Zilla Parishad	Intermediate Panchayat	Village Panchayat
1	M&T Division of DAC	Agriculture Department of State Government	Agencies implementing Action Plan	State Government to devolve functionaries as per activities to be implemented under SMAM	--	State Government to devolve functionaries as per activities to be implemented under SMAM

**Annexure-II****COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION (SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.****Annexure-II (a)****Component No. 1: Promotion and Strengthening of Agricultural Mechanization through Training, Testing and Demonstration****A. Demonstration:**

<b>S.N</b>	<b>ITEM</b>	<b>PATTERN OF ASSISTANCE</b>
<b>I</b>	Demonstration of agricultural / horticultural equipments at farmers' fields.	100% assistance @ Rs. 4000 per hectare upto 100 ha per season. This includes: (i) Charges towards hiring of machines alongwith implements/ self propelled machines – Rs. 2000 per ha. (ii) Expenditure towards hands on training – Rs. 1500 per ha. (iii) Miscellaneous expenditure such as expenditure towards transport, labour, publicity and printing of technical literature etc – Rs. 500 per ha

**B. Training:**

<b>S.N</b>	<b>ITEM</b>	<b>MAXIMUM PERMISSIBLE PROJECT COST</b>	<b>PATTERN OF ASSISTANCE</b>
<b>I</b>	Training of farmers/users/stakeholders by Institutions identified by State Govt./ICAR	Rs.25.0 lakh per State per year.	Rs. 4000/- per trainee per week, including boarding/lodging and transport

**C. Testing**

<b>S.N</b>	<b>ITEM</b>	<b>MAXIMUM PERMISSIBLE PROJECT COST</b>	<b>PATTERN OF ASSISTANCE</b>
<b>I</b>	Strengthening of designated SAU's/ICAR Institutions/ Govt. Agencies for undertaking testing of agricultural equipment	Rs. 1.5 crore per centre.	One time grant upto Rs. 1.5 crore



**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (b)**

**Component No. 2: Demonstration, Training and Distribution of Post Harvest Technology and Management (PHTM)**

**A . Financial Assistance for Post Harvest Equipment.**

Item	For SC, ST, Small & Marginal farmers, Women and NE States beneficiary		For other beneficiary	
	Maximum Permissible subsidy per Machine/Equipment per beneficiary	Pattern of Assistance	Maximum Permissible subsidy per Machine/Equipment	Pattern of Assistance
Establishment of PHT units for transfer of primary processing technology, value addition, low cost scientific storage, packaging units and technologies for by-product management in the production catchments.	1.50 lakh	60% of cost of unit	1.25 lakh	50%

**B. Demonstration:**

S.N	ITEM	PATTERN OF ASSISTANCE
<b>I</b>	Demonstration of developed/ appropriate Post Harvest Technologies.	100% assistance @ Rs. 4000 per hectare upto 100 ha per season. This includes: (i) Charges towards hiring of machines alongwith implements/ self propelled machines – Rs. 2000 per ha. (ii) Expenditure towards hands on training – Rs. 1500 per ha. (iii) Miscellaneous expenditure such as expenditure towards transport, labour, publicity and printing of technical literature etc – Rs. 500 per ha

**C. Training:**

S.N	ITEM	MAXIMUM PERMISSIBLE PROJECT COST	PATTERN OF ASSISTANCE
<b>I</b>	Training of Farmers, Entrepreneurs and Scientists in areas related to Post Harvest Technology.	<b>Rs. 25.0 lakh per State.</b>	Rs. 4000/- per trainee per week, including boarding/lodging and transport

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c)**

**Component No. 3: Financial Assistance for Procurement of Agriculture Machinery and Equipment**

Type of Agricultural Machinery * , \$	For SC, ST, Small & Marginal farmers, Women and NE States beneficiary		For other beneficiary	
	Maximum Permissible subsidy per Machine/ Equipment per beneficiary	Pattern of Assistance	Maximum Permissible subsidy per Machine/ Equipment per beneficiary	Pattern of Assistance
<b>Tractors</b>				
<b>(i) Tractor (08-15 PTO HP)</b>	Rs. 1.00 lakh	35%	Rs. 0.75 lakh	25%
<b>(ii) Tractor (15 -20 PTO HP)</b>	Rs. 1.00 lakh	35%	Rs. 0.75 lakh	25%
<b>(iii) Tractor (Above 20-40 PTO HP)</b>	Rs. 1.25 lakh	35%	Rs. 1.00 lakh	25%
<b>(iv) Tractor (40-70 PTO HP)</b>	Rs. 1.25 lakh	35%	Rs. 1.00 lakh	25%
<b>Power Tillers</b>				
<b>(i) Power Tiller (below 8 BHP)</b>	Rs. 0.50 lakh	50%	Rs. 0.40 lakh.	40%
<b>(ii) Power Tiller (8 BHP &amp; above)</b>	Rs. 0.75 lakh	50%	Rs. 0.60 lakh.	40%
<b>Rice Transplanter</b>				
<b>Self Propelled Rice Transplanter( 4 rows)</b>	Rs.0.94 lakh	50%	Rs. 0.75 lakh	40%
<b>Self Propelled Rice Transplanter</b> (i) above 4-8 rows (ii) above 8-16 rows	Rs. 2.0 lakh.	40%	Rs. 2.0 lakh.	40%
<b>Self Propelled Machinery</b>				
<b>Self Propelled Machinery</b> (i) Reaper cum Binder	Rs. 1.25 lakh	50%	Rs. 1.00 lakh	40%
<b>Specialized Self Propelled Machinery</b> (i) Reaper (ii) Post Hole Digger/Augur (iii) Pneumatic/ other Planter	Rs. 0.63 lakh	50%	Rs. 0.50 lakh	40%
<b>Self Propelled Horticultural Machinery</b> (i) Fruit Plucker (ii) Tree pruners (iii) Fruit Harvesters (iv) Fruit Graders (v) Track Trolley (vi) Nursery Media Filling Machine (vii) Multipurpose Hydraulic System (viii) Power operated horticulture tools for pruning, budding, grating, shearing etc.	Rs. 1.25 lakh	50%	Rs. 1.00 lakh	40%

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No. 3: Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>		
<b>Type of Agricultural Equipments ** , #</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>	<b>For other beneficiary</b>
	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>
<b>Tractor/Power Tiller (below 20 BHP) driven equipments.</b>		
<b>A. Land Development, tillage and seed bed preparation equipments:</b>	Rs. 0.15 lakh	Rs. 0.12 lakh
(i) MB Plow		
(ii) Disc Plow		
(iii) Cultivator		
(iv) Harrow		
(v) leveler Blade		
(vi) cage wheel		
(vii) Furrow opener		
(viii) Ridger		
(ix) Weed slasher		
(x) Laser Land Leveller		
(xi) Reversible Mechanical plough		
(xii) Rotavator	Rs. 0.35 lakh	Rs. 0.28 lakh
(xiii) Rotopuddler		
(xiv) Reversible Hydraulic plough		
(xv) Chisel Plough	Rs. 0.08 lakh	Rs. 0.06 lakh

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No.3 : Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>		
<b>Type of Agricultural Equipments ** , #</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>	<b>For other beneficiary</b>
<b>Tractor/Power Tiller (below 20 BHP) driven equipments .</b>	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>
<b>B. Sowing, Planting, Reaping and Digging Equipments:</b> (i) Post Hole digger (ii) Potato Planter (iii) Potato Digger (iv) Ground nut digger (v) Strip till drill (vi) tractor drawn reaper (vii) onion harvester (viii) Rice straw Chopper, (ix) Zero till seed cum fertilizer drill (x) Raised Bed Planter (xi) Sugar cane cutter/Stripper (xii) planter, (xiii) seed drill (xiv) multi crop planter (xv) zero -till multi crop planter (xvi) Ridge furrow planter	Rs 0.15 lakh	Rs. 0.12 lakh
(i) Turbo Seeder (ii) Pneumatic Planter (iii) Pneumatic vegetable transplanter, (iv) Pneumatic vegetable seeder (v) Happy seeder (vi) Plastic Mulch Laying Machine	Rs. 0.35 lakh	Rs. 0.28 lakh

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No.3 : Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>		
<b>Type of Agricultural Equipments ** , #</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>	<b>For other beneficiary</b>
<b>Tractor/Power Tiller (below 20 BHP) driven equipments .</b>	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>
<b>C.Inter Cultivation Equipments:</b> (i) Grass Weed Slasher (ii) Rice straw Chopper (iii) Power Weeder (engine operated below 2 bhp)	Rs. 0.15 lakh	Rs. 0.12 lakh
<b>D. Equipments for Residue management/Hay and Forage Equipments:</b> (i) Sugarcane thrash Cutter (ii) Coconut Frond Chopper, (iii) Rake (iv) Balers. (v) Straw reaper	Rs. 0.15 lakh	Rs. 0.12 lakh
<b>E. Harvesting &amp; Threshing Equipments (Operated by engine/electric motor below 3 hp and by power tiller , and tractor of below 20 BHP tractor ):</b> (i) Ground Nut Pod Stripper (ii) Thresher (iii) Multi crop Threshers (iv) Paddy Thresher (v) Brush Cutter	Rs. 0.2 lakh	Rs. 0.16 lakh
<b>F. Chaff Cutter (Operated by engine/electric motor below 3 hp and by power tiller , and tractor of below 20 BHP tractor )</b>	Rs. 0.2 lakh	Rs. 0.16 lakh

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No. 3: Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>		
<b>Type of Agricultural Equipments ** , #</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>	<b>For other beneficiary</b>
	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>	<b>Maximum Permissible Cost subsidy Machine/Equipment per beneficiary</b>
<b>Tractor (above20- 35 BHP) driven equipments .</b>		
<b>A. Land Development ,tillage and seed bed preparation equipments:</b>		
(i) MB Plow		
(ii) Disc Plow		
(iii) Cultivator		
(iv) Harrow		
(v) leveler Blade		
(vi) cage wheel		
(vii) Furrow opener		
(viii) Ridger		
(ix) Weed slasher		
(x) Laser Land Leveller		
(xi) Reversible Mechanical plough		
	Rs. 0.19 lakh	Rs. 0.15 lakh
(xii) Rotavator		
(xiii) Rotopuddler		
(xvi) Reversible Hydraulic plough		
	Rs.0.44 lakh	Rs. 0.35 lakh
(xvii) Chisel Plough		
	Rs. 0.10 lakh	Rs. 0.08 lakh

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No. 3 : Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>		
<b>Type of Agricultural Equipments ** , #</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>	<b>For other beneficiary</b>
<b>Tractor (above20- 35 BHP) driven equipments .</b>	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>	<b>Maximum Permissible Cost subsidy Machine/Equipment per beneficiary</b>
<b>B. Sowing , Planting ,Reaping and Digging Equipments:</b> (i) Post Hole digger (ii) Potato Planter (iii) Potato Digger (iv) Ground nut digger (v) Strip till drill (vi) tractor drawn reaper (vii) onion harvester (viii) Rice straw Chopper, (ix) Zero till seed cum fertilizer drill (x) Raised Bed Planter (xi) Sugar cane cutter/Stripper (xii) Multi crop planter, (xiii) seed drill (xiv) multi crop planter (xv) zero -till multi crop planter (xvi) Ridge furrow planter	Rs. 0.19 lakh	Rs. 0.15 lakh
(xvii) Turbo Seeder (xviii) Pneumatic Planter (xix) Pneumatic vegetable transplanter (xx) Pneumatic vegetable seeder (xxi) Happy seeder (xxii) Plastic Mulch Laying Machine	Rs.0.44 lakh	Rs. 0.35 lakh

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No. 3: Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>		
<b>Type of Agricultural Equipments ** , #</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>	<b>For other beneficiary</b>
<b>Tractor (above 20- 35 BHP) driven equipments .</b>	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>	<b>Maximum Permissible Cost subsidy Machine/Equipment per beneficiary</b>
<b>C. Inter Cultivation Equipments:</b> (i) Grass Weed Slasher (ii) Rice straw Chopper (iii) Power Weeder (engine operated above 2 bhp)	Rs. 0.19 lakh	Rs. 0.15 lakh
<b>D. Equipments for Residue management/Hay and Forage Equipments:</b> (i) Sugarcane thrash Cutter (ii) Coconut Frond Chopper, (iii) Rake (iv) Balers (v) Straw reaper	Rs. 0.19 lakh	Rs. 0.15 lakh
<b>E. Harvesting &amp; Threshing Equipments (Operated by engine/electric motor below 5 bhp and by power tiller , and tractor of below 35 BHP tractor ):</b> (i) Ground Nut Pod Stripper (ii) Thresher (iii) Multi crop Threshers (iv) Paddy Thresher (v) Brush Cutter	Rs. 0.25 lakh	Rs. 0.2 lakh
<b>F. Chaff Cutter (Operated by engine/electric motor above 3- 5 hp and by power tiller , and tractor of below 35 BHP tractor )</b>	Rs. 0.25 lakh	Rs. 0.2 lakh



**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No.3 : Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>		
<b>Type of Agricultural Equipments ** , #</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>	<b>For other beneficiary</b>
	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>	<b>Maximum Permissible Cost subsidy Machine/Equipment per beneficiary</b>
<b>Tractor (above 35 BHP) driven equipments.</b>		
<b>A. Land Development ,tillage and seed bed preparation equipments:</b> (i) MB Plow (ii) Disc Plow (iii) Cultivator (iv) Harrow (v) Leveler Blade (vi) Cage wheel (vii) Furrow opener (viii) Ridger (ix) Reversible Mechanical plough	Rs. 0.44 lakh	Rs. 0.35 lakh
(x) Weed slasher (xi) Laser Land Leveller (xii) Rotavator (xiii) Roto-puddler (xiv) Reversible Hydraulic plough (xv) Sub – soiler (xvi) Trench makers (PTO operated) (xvii) Bund former (PTO operated) (xviii) Power Harrow (PTO operated) (xix) Backhoe Loader Dozer (Tractor operated)	Rs. 0.63 lakh	Rs. 0.50 lakh

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No.3 : Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>				
<b>Type of Agricultural Equipments ** ,#</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>		<b>For other beneficiary</b>	
	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>	<b>Pattern of Assistance</b>	<b>Maximum Permissible Cost subsidy Machine/Equipment per beneficiary</b>	<b>Pattern of Assistance</b>
<b>Tractor (above 35 BHP) Drivenequipments.</b>				
<b>B. Sowing , Planting , Reaping and Digging Equipments:</b>				
(i) Zero till seed cum fertilizer drill	Rs. 0.44 lakh	-	Rs. 0.35 lakh	-
(ii) Raised Bed Planter				
(iii) seed drill				
(iv) Potato Digger				
(v) tractor drawn reaper				
(vi) onion harvester				
(i) Post Hole digger	Rs. 0.63 lakh	50%	Rs. 0.50 lakh	40%
(ii) Potato Planter				
(iii) Ground nut digger				
(iv) Strip till drill				
(v) Rice straw Chopper,				
(vi) Sugar cane cutter/Stripper/planter,				
(vii) multi crop planter				
(viii) zero -till multi crop planter				
(ix) Ridge furrow planter				
(x) Turbo Seeder				
(xi) Pneumatic Planter				
(xii) Pneumatic vegetable transplanter,				
(xiii) Pneumatic vegetable seeder				
(xiv) Happy seeder				
(xv) Cassava Planter				
(xvi) Manure spreader				
(xvii) Fertilizer Spreader – PTO operated				
(xviii) Plastic Mulch Laying Machine				
(xix) Automatic rice nursery sowing machinery				

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No.3 : Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>				
<b>Type of Agricultural Equipments ** , #</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>		<b>For other beneficiary</b>	
	<b>Maximum Permissible subsidy per Machine/ Equipment per beneficiary</b>	<b>Pattern of Assistance</b>	<b>Maximum Permissible Cost subsidy Machine/ Equipment per beneficiary</b>	<b>Pattern of Assistance</b>
<b>Tractor (above 35 BHP) driven equipments .</b>				
<b>C. Inter Cultivation Equipments:</b> (i) Grass/ Weed Slasher, (ii) Rice straw Chopper, (iii) Weeder (PTO operated)	Rs.0.63 Lakh	50%	Rs. 0.50 lakh	40%
<b>D. Harvesting &amp; Threshing Equipments (Operated by engine/electric motor above 5 hp and tractor of above 35 BHP tractor )</b> (i) Ground Nut Pod Stripper (ii) Thresher/Multi crop Threshers (iii) Paddy Thresher (iv) Chaff Cutter (v) Forage Harvester (vi) Birds Scarer	Rs.0.63 Lakh	50%	Rs. 0.50 lakh	40%
<b>E. Equipments for Residue management/Hay and Forage Equipments:</b> (i) Sugarcane thrash Cutter, (ii) Coconut Frond Chopper, (iii) Hay Rake (iv) Balers (Round) (v) Baler (Rectangular) (vi) Wood chippers (vii) Sugarcane ratoon manager (viii) cotton stalk uprooter (ix) Straw reaper	Rs.0.63 Lakh	50%	Rs. 0.50 lakh	40%

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No.3 : Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>		
<b>Type of Agricultural Equipments ** , #</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>	<b>For other beneficiary</b>
	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>	<b>Maximum Permissible Cost subsidy Machine/Equipment per beneficiary</b>
<b>All manual /animal drawn equipment/implements/Tools</b>		
<b>A.Land Development , tillage and seed bed preparati on equipments:</b>		
(i) MB Plow		
(ii) Disc Plow		
(iii) Cultivator		
(iv) Harrow		
(v) leveler Blade		
(vi) Furrow opener		
(vii) Ridger		
(viii) Puddler		
	Rs. 0.10 lakh	Rs. 0.08 lakh
<b>B. Sowing and Planting Equipments:</b>		
(i) Paddy planter,		
(ii) seed cum fertilizer drill,		
(iii) Raised Bed Planter,		
(iv) planter,		
(v) Dibbler		
(vi) Equipments for raising paddy nursery		
	Rs. 0.10 lakh	Rs. 0.08 lakh
(vii) Drum Seeder (Below 4 Row)	Rs. 0.015 lakh	Rs. lakh. 0.012
(viii) Drum Seeder (Above 4 Row)	Rs.0.019 lakh	Rs. 0.015 lakh
<b>C. Harvesting &amp; Threshing Equipments:</b>		
(i) Ground Nut Pod Stripper		
(ii) Thresher		
(iii) Winnowing fan		
(iv) Tree climber		
(v) Horticulture Hand tools		
	Rs.0.10 lakh	Rs. 0.08 lakh
(vi) Chaff Cutter (upto 3)	Rs. 0.05lakh	Rs. 0.04 lakh
(vii) Chaff Cutter (above 3)	Rs.0.063 lakh	Rs. 0.05 lakh
<b>D. Inter Cultivation Equipments:</b>		
(i) Grass Weed Slasher,		
(ii) Weeder,		
(iii) Conoweeder		
(iv) Garden Hand Tools		
	Rs. 0.006 lakh	Rs. 0.005 lakh

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (c) Contd.**

<b>Component No. 3 : Financial Assistance for Procurement of Agriculture Machinery and Equipment</b>				
<b>Type of Agricultural Equipments ** , \$</b>	<b>For SC, ST, Small &amp; Marginal farmers, Women and NE States beneficiary</b>		<b>For other beneficiary</b>	
	<b>Maximum Permissible subsidy per Machine/Equipment per beneficiary</b>	<b>Pattern of Assistance</b>	<b>Maximum Permissible Cost subsidy Machine/Equipment per beneficiary</b>	<b>Pattern of Assistance</b>
<b>Plant protection equipments</b>				
(a) Manual sprayer: (i) Knapsack/foot operated sprayer.	Rs.0.006 lakh	-	Rs. 0.005 lakh.	-
(b) Powered Knapsack sprayer/Power Operated Taiwan sprayer (capacity 8 - 12 lts):	Rs. 0.031 lakh	-	Rs. 0.025 lakh	-
(b) Powered Knapsack sprayer/Power Operated Taiwan sprayer (capacity above 12- 16 lts):	Rs.0.038 lakh	-	Rs. 0.03 lakh	-
(c) Powered Knapsack sprayer/Power Operated Taiwan sprayer (capacity above 16lts)	Rs.0.10 lakh	-	Rs. 0.08 lakh	-
(d) Tractor mounted /Operated Sprayer (below 20 BHP ):	Rs.0.10 lakh	-	Rs. 0.08 lakh	-
(e) Tractor mounted /Operated Sprayer (below 35 BHP ):	Rs.0.13 lakh	-	Rs. 0.10 lakh	-
(f) Eco Friendly Light Trap	Rs.0.014 lakh	-	Rs. 0.012 lakh	-
(g) Tractor mounted / Operated Sprayer (above 35 BHP ):	Rs.0.63 lakh	50%	Rs. 0.50 lakh	40%
(h) Electrostatic Sprayer	Rs.0.63 lakh	50%	Rs. 0.50 lakh	40%
<b>Post Harvest Technology</b>				
Establishment of PHT units for transfer of primary processing technology, value addition, low cost scientific storage, packaging units and technologies for by-product management in the production catchments.	Rs. 1.50 lakh/unit	60%	Rs.1.25 lakh/unit	50%

**PTO – Power Take Off**

\*Illustrative list of the equipments tested from FMTTIs & other designated Institutes may be referred at [www.farmech.gov.in](http://www.farmech.gov.in)

\*\*All tested equipments from either FMTTIs or designated Institute from DAC are only eligible for subsidy in all states under Government assisted programme

# These Agricultural Implements authorized to test at designated Institute from DAC.

\$ These Agricultural machinery authorized to test at FMTTIs.

- Any extra equipment proposed by States would be considered by DAC under the appropriate category of assistance.

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (d)**

**Component No. 4: Establishment of Farm Machinery Banks for Custom Hiring:**

<b>I</b>	<b>Establishment of Farm Machinery Banks for Custom Hiring</b>		
<b>S.N</b>	<b>ITEM</b>	<b>MAXIMUM PERMISSIBLE PROJECT COST</b>	<b>PATTERN OF ASSISTANCE</b>
<b>A</b>	Procurement subsidy for establishment of Custom Hiring Centre upto 10 lakh	<b>Project based</b> Rs. 4.0 lakh	40%
<b>B</b>	Procurement subsidy for establishment of Custom Hiring Centre upto 25 lakh	<b>Project based</b> Rs. 10.0 lakh	40%
<b>C</b>	Procurement subsidy for establishment of Custom Hiring Centre upto 40 lakh	<b>Project based</b> Rs. 16.0 lakh	40%
<b>D</b>	Procurement subsidy for establishment of Custom Hiring Centre upto 60 lakh	<b>Project based</b> Rs. 24.0 lakh	40%

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (e)**

**Component No. 5: Establishment of Hi-Tech, High Productive Equipment Hub for Custom Hiring**

<b>A</b>	Procurement subsidy for establishment of Custom Hiring Centre upto 100 lakh	<b>Project based</b> Rs. 40.0 lakh	40%
<b>B</b>	Procurement subsidy for establishment of Custom Hiring Centre upto 150 lakh	<b>Project based</b> Rs. 60.0 lakh	40%
<b>C</b>	Procurement subsidy for establishment of Custom Hiring Centre upto 200 lakh	<b>Project based</b> Rs. 80.0 lakh	40%
<b>D</b>	Procurement subsidy for establishment of Custom Hiring Centre upto 250 lakh	<b>Project based</b> Rs. 100.0 lakh	40%

**Annexure-II (f)**

**Component No. 6:- Promotion of Farm Mechanisation in Selected Villages**

<b>S.N</b>	<b>ITEM</b>	<b>MAXIMUM PERMISSIBLE PROJECT COST</b>	<b>PATTERN OF ASSISTANCE</b>
<b>I</b>	Financial assistance for Farm Machinery Banks with minimum 8 Farmers per Bank	Upto Rs.10 lakhs per Farm Machinery Bank	80% of the cost of Farm Machinery Bank

**COST NORMS AND PATTERN OF ASSISTANCE UNDER SUB MISSION ON AGRICULTURAL MECHANIZATION  
(SMAM) DURING 12<sup>TH</sup> PLAN PERIOD.**

**Annexure-II (g)**

**Component No. 7: Financial Assistance for Promotion of Mechanized Operations/hectare Carried out Through Custom Hiring Centres:**

<b>S.N</b>	<b>ITEM</b>	<b>MAXIMUM PERMISSIBLE PROJECT COST</b>	<b>PATTERN OF ASSISTANCE</b>	<b>Norms for Intervention</b>
<b>I</b>	(a) Hiring Charges to farmer members of Farm Machinery Banks set up under component (6)	Upto a maximum of 1 ha area as per following norms (i) For tractor/power operated operations – Rs. 2000/ha per farmer per year (ii) For animal drawn mechanized operations- Rs. 1000/ha per farmer per year (iii) For manual operations – Rs. 750/ha per farmer per year	50% of the cost of operation/ha	Selection of villages from districts with low productivity in Cereals, Pulses & Oilseeds identified in other Missions for demonstrations  One time hiring assistance to farmer members of the farm machinery banks set up under component (6)
	(b) Field Demo by CHCs	Minimum 120 ha/season per Custom Hiring Centre	Rs. 4000/ha	Demonstration charges to custom hiring centres set up under Component (4). These demonstrations will be limited to 120 ha/village

**Annexure-II (h)**

**Component No. 8: Promotion of Farm Machinery and Equipment in North-Eastern Region**

<b>S.N</b>	<b>ITEM</b>	<b>MAXIMUM PERMISSIBLE PROJECT COST</b>	<b>PATTERN OF ASSISTANCE (Project Based)</b>	<b>Norms for Intervention</b>
<b>I</b>	(a) Financial assistance for procurement of machinery/implements	Upto Rs.1.25 lakhs per beneficiary	100% of cost of machinery/implement/equipment	8 North Eastern States to take up this on project basis with a minimum of 8-10 farmers and maximum 150 farmers in order to encourage good agricultural practices in specific crops/areas.
	(b) Financial assistance for Farm Machinery Banks for group of farmers	Upto Rs.10 lakhs per Farm Machinery Bank	95% of cost of Farm Machinery Banks	



<b>FORMULA TO CALCULATE FARM POWER AVAILABILITY (kW / ha)</b>	
<b>kW / ha =</b>	(Number of agricultural Worker x 0.05+Number of draught animal x 0.38 +Number of Tractors x 26.1+ Number of Power tillers x 5.6 + Number of electric motor x 3.7 + Number of diesel engine x 5.6)÷ Available cultivated land in ha

**LIST OF TRAINING PROGRAMMES CONDUCTED AT THE FARM MACHINERY TRAINING & TESTING INSTITUTES**

<b>Sl. No.</b>	<b>Name of the Course</b>	<b>Duration</b>	<b>Training Charges per person per course</b>
I.	<b>USER LEVEL COURSES:</b>		
<b>U1</b>	Appropriate Mechanization Technology for Energy Management in Agriculture	4 weeks	<b>FREE</b>
<b>U2</b>	Selection, Operation, Safety and Maintenance of Improved Agricultural Machinery	6 weeks	
<b>U3</b>	Operation, maintenance and Management of power tiller	2 weeks	
<b>U4</b>	Training Program on Agro Processing & value addition Equipments	2 weeks	
<b>U5</b>	Gender friendly Equipments for Women farmers	3 days	
<b>U6</b>	Utilization of Non-conventional Energy Sources in Agriculture.	1 week	
<b>U7</b>	Water Management Through sprinkler and drip Irrigation & Water saving devices.	1 week	
<b>U8</b>	Selection, Operation, and Maintenance of Plant Protection Equipments	1 week	
<b>U9</b>	Selection, Operation, and Maintenance of improved Harvesting & Threshing machines	2 weeks	
<b>U10</b>	Selection, Operation, and Maintenance of Hand Pump	1 week	
<b>U11</b>	Selection, operation and maintenance of agril. Machinery for dry land agriculture.	2 week	
<b>U12</b>	<b>Crop Specific Machines:</b>		
a)	Package of Agricultural machinery for Paddy cultivation.	1 week each	<b>FREE</b>
b)	Package of Agricultural machinery for Maize cultivation.		
c)	Package of Agricultural machinery for Vegetable cultivation.		
d)	Package of Agricultural machinery for Sugarcane cultivation.		
e)	Package of Agricultural machinery for Horticulture & Medicinal crops cultivation.		
f)	Package of Agricultural machines for oil seed and pulse crop		
g)	Package of Agricultural machinery for forage/fodder production and fodder management.		
<b>U13</b>	Information Technology application in farm mechanization		

II.	<b>TECHNICIAN LEVEL COURSES:</b>			
	<b>A. Courses on Repair and Overhauling</b>			
	<b>T1</b>	Repair and overhauling of Stationery engines and tractors	6 weeks	Rs. 300/-
	<b>T2</b>	Repair & overhauling of power tillers	2 weeks	Rs. 100/-
	<b>T3</b>	Establishment and management of agricultural machinery repair and maintenance workshop	4 weeks	Rs. 200/-
	<b>T4</b>	Study & Repair of Hydraulic system in Agriculture Machines.	4 weeks	Rs. 200/-
	<b>T5</b>	Repair and maintenance of Auto Electrical equipments and Battery re-conditioning	3 weeks	Rs. 150/-
	<b>T6</b>	Repair, maintenance & rewinding of Electrical motors, and submersible pumps for agricultural use	3 weeks	Rs.150/-
	<b>T7</b>	Operation & maintenance of Land shaping and Development machinery	4 weeks	Rs. 500/-
	<b>T8</b>	Repair, maintenance & overhauling of diesel pumping sets	2 weeks	Rs. 100/-
	<b>T9</b>	Maintenance, repair and installation of Combine Harvesters and Straw Reaper.	3 weeks	Rs. 150/-
	<b>B. Earning While Learning Courses:</b>			
	<b>TEL-1</b>	Repair and overhauling of Stationery engines, tractors and diesel pumping sets.	6 months	Rs. 200/-
	<b>TEL-2</b>	Repair & overhauling of power tillers	6 months	Rs. 200/-
<b>TEL-3</b>	Establishment and management of agricultural machinery repair and maintenance workshop	6 months	Rs. 200/-	
<b>TEL-4</b>	Repair and maintenance of Auto Electrical equipments, Battery re-conditioning, Rewinding of electrical motors and submersible pumps.	6 months	Rs. 200/-	
<b>TEL-5</b>	Maintenance, repair and installation of Combine Harvesters and Straw Reaper.	6 months	Rs. 200/-	
III.	<b>MANAGEMENT LEVEL COURSES:</b>			
	<b>M1</b>	Testing and Evaluation of Farm Machinery	1 week	Rs. 1000/-
	<b>M2</b>	Agriculture Machinery Management	1 week	Rs. 1000/-
	<b>M3</b>	Export Management of Agricultural Machinery.	1 week	Rs. 1000/-

**Annexure-V****List of institutions approved by the Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India for Testing and Certifying Agricultural Machineries and Equipments**

<b>S. No.</b>	<b>Name of the State</b>	<b>Name of the Institute</b>
1	<b>ANDHRA PRADESH</b>	Acharya N.G. Ranga Agriculture University (ANGRAU), Rajendra Nagar, <b>HYDERABAD (ANDHRA PRADESH)</b>
2	<b>BIHAR</b>	Faculty of Agricultural Engineering, Rajendra Agriculture University, <b>PUSA (BIHAR)</b>
3	<b>CHHATTISGARH</b>	State level Agriculture Implement Testing Centre, Directorate (Agricultural Engineering), Agriculture Department, Govt. of Chhattisgarh, TeliBandha, Gorav Path, <b>RAIPUR (CHHATTISGARH)</b>
4	<b>DELHI</b>	Division of Agricultural Engineering, Indian Agricultural Research Institute, <b>NEW DELHI-12.</b>
5	<b>GUJARAT</b>	College of Agricultural Engineering & Technology, Junagarh Agricultural University, <b>JUNAGARH (GUJARAT)</b>
6	<b>HARYANA</b>	College of Agricultural Engineering & Technology, ChoudharyCharan Singh Agriculture University, <b>HISSAR (HARYANA)</b>
7	<b>JAMMU &amp; KASHMIR</b>	Sher-e-Kashmir University of Agri. Science & Technology, <b>SRINAGAR REGION (J. &amp; K.) and JAMMU REGION (J. &amp; K.)</b>
8	<b>JHARKHAND</b>	Birsa Agriculture University, Kanke, <b>RANCHI (JHARKHAND)</b>
9		Jharkhand Agriculture Machinery Testing and Training Centre (JAM-TTC), Department of Agriculture and Cane Development (Directorate of Soil Conservation), Jharkhand, Agricultural Engineering Section at Extension Training Campus, Govt. of Jharkhand, <b>RANCHI (JHARKHAND)</b>
10	<b>KARNATAKA</b>	University of Agricultural Sciences, Gandhi KrishiVignyan Kendra, <b>BANGALORE (KARNATAKA.)</b>
11		College of Agricultural Engineering, UAS, <b>RAICHUR, KARNATAKA.</b>
12	<b>KERALA</b>	Farm Machinery Testing Centre, Kerala Agricultural University Kelappaji College of Agricultural Engineering & Technology Tavanur, Malappuram (Dist), Kerala- 679573
13	<b>MADHYA PRADESH</b>	Central Institute of Agricultural Engineering, Berasia Road, <b>BHOPAL (MADHYA PRADESH)</b>
14	<b>MAHARSHTRA</b>	Dr. A.S. College of Agricultural Engineering Mahatma Phule Krishi Vidyapeeth, Rahuri, Distt. Ahmednagar, Maharashtra ( <b>MPKV</b> )
15		Farm Machinery Testing, Training and Production Centre, Department of Farm Power and Machinery, Dr. PDKV, <b>Akola, Maharashtra</b>
16		College of Agricultural Engineering and Technology, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, <b>DAPOLI (MAHARSHTRA)</b>
17		College of Agricultural Engineering and Technology, Marathwada Agricultural University, <b>PARBHANI (MAHARASHTRA)</b>
18	<b>ORISSA</b>	College of Agricultural Engineering and Technology, Orissa University of Agriculture and Technology, <b>BHUBANESWAR (ORISSA)</b>
19		State Level Farm Machinery Training & Testing Centre, Agriculture Department, Government of Odisha, <b>Bhubaneswar, Odisha.</b>
20	<b>PUNJAB</b>	College of Agricultural Engineering and Technology, Punjab Agriculture University, <b>LUDHIANA (PUNJAB)</b>

**Annexure-V (Contd.)**

<b>S. No.</b>	<b>Name of the State</b>	<b>Name of the Institute</b>
21	<b>RAJASTHAN</b>	Farm Implements and Machinery Testing & Training Centre, Central Workshop, Swami Keshwanand Rajasthan Agricultural University, <b>Bikaner (Rajasthan).</b>
22		College of Technology and Agricultural Engineering, MaharanaPratap, University of Agriculture and Technology, <b>UDAIPUR (RAJASTHAN)</b>
23	<b>SIKKIM</b>	College of Agricultural Engineering and Post Harvest Technology, <b>RANIPOOL, GANGTOK(SIKKIM)</b>
24	<b>TAMIL NADU</b>	Tamil Nadu Agricultural University, <b>COIMBATORE (TAMIL NADU)</b>
25	<b>UTTAR PRADESH</b>	State Level Farm Machinery Training and Testing Institute, Govt. of U.P., Rehmankhera, <b>LUCKNOW (U.P.)</b>
26		Sam Higginbottom Institute of Agriculture, Technology & Science (AAI), Deemed University, <b>ALLAHABAD (U.P.)</b>
27	<b>UTTARANCHAL</b>	College of Technology, Gobind Ballabh Pant University of Agriculture and Technology, <b>PANTNAGAR (UTTARANCHAL)</b>
28	<b>WEST BENGAL</b>	Department of Agriculture & Food Engineering, Indian Institute of Technology, <b>KHARAGPUR (WEST BENGAL.)</b>
29		State Farm Machinery Training-cum-Testing Institute, Faculty of Agricultural Engineering, Bidhan Chandra KrishiViswavidyalaya (BCKVV), <b>Mohanpur, DISTT. NADIA (WEST BENGAL)</b>

## TESTING CHARGES W.E.F. 1.4.2014 to 31.3.2015

S.No.	Item	Testing charges	Service Tax @ 12.36%	Total
1	Components	6983	863	7846
2	Hand tools	6983	863	7846
3	Power operated thresher, decorticator, sheller, winnowers etc.	27914	3450	31364
4	Animal drawn equipments	14890	1840	16731
5	Tractor drawn/operated implements/equipments	47458	5866	53324
6	Manually operated equipment	13492	1668	15159
7	Power tiller driven/self propelled reaper etc.	27914	3450	31364
8	Tractor drawn/operated seed cum fertilizer drill/planter, straw reaper, Mini rice mill, power seed cleaner/grader	49781	6153	55934
9	Animal drawn Multi tool bar (Minimum for attachments)	39543	4887	44430
10	Self Propelled paddy transplanter	67926	8396	76322
11	Power operated Multi-crops thresher (Two or more crops)	51180	6326	57505
12.	<b>Samples received from Private Manufacturers :</b> (Other than the samples under BIS Central Certification marks scheme)			
	a) IC Engines with Kerosene /LPG	12848	1588	14436
	b) Pump set (Engine + Pump) with kerosene /LPG	24473	3025	27498
	c) Pumpset without engine	11623	1437	13060
	d) Knapsack Sprayer IS: 3906 (Private sample)	15960	1973	17932
	e) Power Sprayer IS : 2548 (Private Sample)	41907	5180	47087

- ❖ All the testing charges in respect of items at No. 1 to 12 in the above table will be increased by 15% at the end of each financial year.
- ❖ Testing Charges are subject to revision from time to time

**Sub Mission on Agricultural Mechanization (SMAM)  
Format for Annual Action Plan**

Name of State:

Financial Year:

Nodal Department:

Background Information:

FARM POWER AVAILABILITY (kW/ha):

Main Crops:

Type of Soil:

<b>Component No.1: Promotion and Strengthening of Agricultural Mechanisation through Training, Testing and Demonstration</b>				
<b>S.N</b>	<b>Component</b>	<b>Approved pattern of assistance</b>	<b>Estimated Cost</b>	<b>Central Share</b>
<b>i) Demonstrations</b>				
1	Total no. of Demonstrations (i) Cropping pattern based deoms= (ii) New technology machines/equipments demos=	Rs. 4000 per Hectare upto 100 ha per season		
<b>ii. Training</b>				
1	Total no. of courses to be conducted and No. of trainees to be trained under each course (i) U1-U13= (ii) T1-T9=	Rs. 4000 per trainee per week		
<b>iii. Augmenting the facilities and infrastructure for testing Centres</b>				
1	Total No. of Centres to be strengthened	Rs. 150 lakhs max. per institution		
<b>Total Cost (A): i+ii+iii =</b>				
<b>Component No.2: Demonstration, Training and Distribution of Post Harvest Technology and Management (PHTM)</b>				
<b>i. Demonstrations</b>				
1	Total Area to be covered under demonstrations (i) Cropping pattern based demos = (ii) New technology machines/equipments demos =	Rs. 4000 per Hectare upto 100 ha per season		
<b>ii. Training</b>				
1	Total no. of courses to be conducted and No. of trainees to be trained under each course	Rs. 4000 per trainee per week		
<b>iii. Establishment of PHT Technology</b>				
	Total number of PHT Technologies to be established	50% of the cost limited to Rs. 1.25 lakhs (Additional 10% to SC/ST/Small and Marginal/Women and North Eastern States)		
<b>Total Cost (B): i+ii+iii =</b>				

**(c) Component No.3: Financial Assistance for Procurement of Agriculture Machinery and Equipment**

S.N	Component		Pattern of Assistance	Estimated Cost	Central Share	State Share
1	Name of machines to be procured	No. of machines to be procured	As per Annexure-II (c)			
	Tractor					
	Power tiller					
	self propelled machines					
	Tractor driven implements					
	animal/manual drawn machines					
	PP Manual					
	PP Power					

**Total Cost (C):****(D) Component No.4: Farm Machinery Banks for Custom Hiring**

1	Total no. of farm machinery Banks	Pattern of Assistance	Estimated Cost	Central Share	State Share
a)	Upto 10 lakh =	40% limited to Rs. 4 lakh			
b)	Upto 25 lakh =	40% limited to Rs. 10 lakh			
c)	Upto 40 lakh =	40% limited to Rs. 16 lakh			
d)	Upto 60 lakh =	40% limited to Rs. 24 lakh			

**Total Cost (D):****(E) Component No.5:Hi-Tech, High Productive Equipment Hub for Custom Hiring**

1	Total no. of Hubs	Pattern of Assistance	Estimated Cost	Central Share	State Share
a)	Upto 100 lakh =	40% limited to Rs. 40 lakh			
b)	Upto 150 lakh =	40% limited to Rs. 60 lakh			
c)	Upto 200 lakh =	40% limited to Rs. 80 lakh			
d)	Upto 250 lakh =	40% limited to Rs. 100 lakh			

**Total Cost (E):****(F) Component No.6: Promotion of Farm Mechanisation in Selected Villages**

1	No. of Farm Machinery Banks	Pattern of Assistance	Estimated Cost	Central Share	State Share
		80% of the project cost limited to Rs. 10 lakhs per village			

**Total Cost (F):**



**(G) Component No.7: Financial Assistance for Promotion of Mechanized Operations/hectare Carried out Through Custom Hiring Centres**

S.N	Intervention	Pattern of Assistance	Estimated Cost	Central Share	State Share
a)	Operational Charges to farmer members of Farm Machinery Banks set up under component (6) – Type of Operation & Area to be covered under each operation	50% of the cost of operation/ha limited to (i) Rs. 2000/ha per farmer per year for tractor/power operated operations (ii) Rs. 1000/ha per farmer per year for animal drawn mechanized operations and (iii) Rs. 750/ha per farmer per year for manual operations			
b)	No. of Field Demo by CHCs	Rs. 4000/ha with a minimum of 120 ha/season per CHC			

**Total Cost ( G):**

**(H) Component No.8: Promotion of Farm Machinery and Equipment in North-Eastern States**

S.N	Intervention	Pattern of Assistance	Estimated Cost	Central Share	State Share																		
a)	<table border="1"> <tr> <td>Financial assistance for procurement of machinery/ implements</td> <td></td> </tr> <tr> <td>Name of machines to be procured</td> <td>No. of machines to be procured</td> </tr> <tr> <td>Tractor</td> <td></td> </tr> <tr> <td>Power tiller</td> <td></td> </tr> <tr> <td>self propelled machines</td> <td></td> </tr> <tr> <td>Tractor driven implements</td> <td></td> </tr> <tr> <td>animal/manual drawn machines</td> <td></td> </tr> <tr> <td>PP Manual</td> <td></td> </tr> <tr> <td>PP Power</td> <td></td> </tr> </table>	Financial assistance for procurement of machinery/ implements		Name of machines to be procured	No. of machines to be procured	Tractor		Power tiller		self propelled machines		Tractor driven implements		animal/manual drawn machines		PP Manual		PP Power		100% of cost of machinery/ implement/ equipment upto Rs.1.25 lakhs per beneficiary			
Financial assistance for procurement of machinery/ implements																							
Name of machines to be procured	No. of machines to be procured																						
Tractor																							
Power tiller																							
self propelled machines																							
Tractor driven implements																							
animal/manual drawn machines																							
PP Manual																							
PP Power																							
b)	Financial assistance for Farm Machinery Banks for group of farmers	95% of cost of Farm Machinery Banks & upto Rs.10 lakhs per Farm Machinery Bank																					

**Total Cost (H):**

**(I) Flexi Funds:**

1	Local Initiatives (10% of the approved outlay)				

**Total Cost (I)**

**J. Management/Administrative Cost (<5%):**

**Total Cost (A+B+C+D+E+F+G+H+I+J)=**

**Total Central Share=**

**Total State Share=**

FORM GFR 19-A  
(See Government of India's Decision (i) below rule 150)  
Form of Utilization Certificate

Sl. No	Letter No. & Date	Amount	
			<p>Certified that out of Rs. -----of grants-in -aid sanctioned during the year ---- in favour of ----- under this Ministry/ Department letter No. given in the margin and Rs. -----on account of unspent balance of the previous year, a sum of Rs.----- ---- has been utilized for the purpose of -----For which it was sanctioned and that the balance of Rs.----- remaining unutilized at the end of the year has been surrendered to Government (Vide No.-----dated-----) will be adjusted towards the grant -in-aid payable during the next year-----</p>

2. Certified that I have certified myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kind of checks exercised.

- 1)
- 2)
- 3)
- 4)
- 5)

Signature: -----

Name: -----

Designation: -----

Sub Mission on Agricultural Mechanization (SMAM)  
Format for Quarterly / Annual Progress Report

Name of State:

Financial Year:

Nodal Department:

S.N	Components	Activities	Target Approved by DAC		Quarterly / Annual Progress Report			
					Achievements for quarter I/II/III		Achievements till 31 <sup>st</sup> March	
			Physical	Financial	Physical	Financial	Physical	Financial
1	Promotion and Strengthening of Agricultural Mechanization through Training, Testing and Demonstration	a) Trainees trained in U1-U13 courses	No. of Trainees					
		b) Trainees trained in T1-T9 courses	No. of trainees					
		c) Institution strengthened for testing	Name of the inst.					
		d) Demonstration on cropping system based approach	Area covered (ha), Type of equipments and Type of cropping system					
		e) Demonstration of new technology equipments/ machines	Type of equipments and Area covered (ha)					
2	Demonstration, Training and distribution of Post-Harvest Technology and Management (PHTM)	a) Name & No. of courses	No. of Trainees trained					
		b) Demonstration of PHT	Name of technology & Area in ha					
		c) Establishment of Post Harvest Technologies	Name and No. of technologies established					
3	Financial Assistance for Procurement of Agriculture Machinery and Equipment	Type of machines	No. of machines procured					
		a) Tractor						
		b) Power tiller						
		c) self propelled machines						
		d) Tractor driven implements						
		e) Animal/manual drawn machines						
		f) PP Manual						
g) PP Power								

4	Establish Farm Machinery Banks for Custom Hiring	<b>Size of FM Bank</b>	No. of Banks established					
		Upto 10 lakh						
		Upto 25 lakh						
		Upto 40 lakh						
		Upto 60 lakh						
5	Establish Hi-Tech, High Productive Equipment Hub for Custom Hiring	<b>Size of Hi-tech Hub</b>	No. of Hubs established					
		Upto 100 lakh						
		Upto 150 lakh						
		Upto 200 lakh						
		Upto 250 lakh						
6	Promotion of farm mechanisation in selected villages	Farm Machinery Banks established	No. of Banks					
7	Financial Assistance for promotion of Mechanized operations/hectare carried out through custom hiring Centres	a) Operational Charges to the farmer members of Farm Machinery Banks set up under component (6)	Name of the operation and area covered (ha)					
		b) Demonstrations by CHCs under component (7)	Name of the equipment & No. of Field Demo organized and area covered					
8	Promotion of farm machinery and equipment in North-Eastern States	Type of machines	No. of machines procured					
		a) Tractor						
		b) Power tiller						
		c) self propelled machines						
		d) Tractor driven implements						
		e) Animal/manual drawn machines						
		f) PP Manual						
		g) PP Power						
Farm Machinery Banks for group of farmers	No. of Banks established							
9	Flexi Funds(Local Initiatives)	Type of local initiatives						
10	Management/Administrative Cost (≤1%):							
	Total:							