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Government of India
Ministry of Agriculture & Farmers Welfare
(Department of Agriculture & Farmers welfare)
(Mechanization & Technology Division)

Krishi Bhawan, New Delhi
Dated: 26th September, 2024

Subject: Revision in the Operational Guidelines of Sub Mission on Agricultural Mechanization under the umbrella of Rashtriya Krishi Vikas Yojana-regarding

The undersigned is directed to forward the revised Operational Guidelines 2024 of the Centrally Sponsored Scheme "Sub Mission on Agricultural Mechanization" for information and necessary action.

This is issued with the approval of competent authority of this Department.

Encl:-As Above

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Distribution:-

1. The Additional Chief Secretary (Agriculture)/Principal Secretary (Agriculture)/Director (Agriculture)/ State Nodal Officers implementing Mechanization Schemes-All State Governments.
2. PPS to Secretary (DA&FW)/ PPS to AS (PKM)/PPS to JS(M&T)/ All Divisional Heads of DA&FW
3. DDG (Engg.)/ ADG(Engg.), ICAR, Krishi Anusandhan Bhawan-II, Pusa, New Delhi-12
4. ADC(Machinery)/ DC(M&T)-I &II, AC(I&II)/Director(AllFMTTIs)/ US(M&T)/SO(M&T)-I&P
5. PAO (Sectt-II)/ PAO (Sectt.-I)/US (Fin-VII)
6. Incharge-All identified testing institutes of DA&FW

SUB-MISSION ON AGRICULTURAL MECHANIZATION (SMAM)

OPERATIONAL GUIDELINES - 2024

Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture & Farmers Welfare
Krishi Bhawan, New Delhi-110001

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SUB-MISION ON AGRICULTURAL MECHANIZATION

OPERATIONAL GUIDELINES

The Sub-Mission on Agricultural Mechanization (SMAM) will be implemented as a component of Rashtriya Krishi Vikas Yojana (RKVY) with the following objectives and operational guidelines described hereunder:

1.0 Objectives:

(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 Services of agricultural machines to offset the adverse economies of scale arising due to small landholding and high cost of individual ownership;

(iii) Creating awareness among stakeholders through demonstration, capacity building activities and differentiated Information, Education and Communication strategies;

(iv) Ensuring performance testing and certification at designated testing centers located all over the country;

2.0 Strategy:

To achieve the above objectives, the following strategies will be adopted:

(i) Provide financial assistance to farmers for procurement of farm machinery and implements on individual ownership basis

(ii) Establish Custom Hiring Centres of location and crop specific farm machinery and equipments.

(iii) Promote appropriate mechanization technologies for crop production, processing, value addition and crops bi-product management by way of establishing Village Level Farm Machinery Banks in identified villages

(iv) Promoting Agricultural Mechanization in North Eastern Region by providing appropriate agricultural mechanization technologies

(v) Promoting awareness on farm mechanization among stakeholders through demonstration, capacity building activities and differentiated Information, Education and Communication strategies;

(vi) Conducting performance testing for various farm machines and equipments at the four Farm Machinery Training and Testing Institutes (FMTTIs) and authorized testing Centres.

3.0 Annual Action Plan

The State Governments shall submit the composite Annual Action Plan for all agricultural schemes including the Sub-Mission on Agricultural Mechanization (SMAM). The plan of SMAM should include mechanization components of all other schemes of DA&FW. The funds sharing pattern for farm mechanization components between Centre and States will be 60:40 for the normal States, 90:10 for North Eastern and Himalayan States and 100:0 for Union Territories.

Procedure for preparation, submission and approval of AAP will be same as outlined in the common guidelines for RKVY. In brief, it will be as under:

(i) A consolidated AAP for all the schemes of DA&FW may be prepared by the State Agriculture Department in one go.

(ii) Tentative overall allocation of funds availability of all the schemes under RKVY will be communicated to the State Governments as a reference point to finalize the AAP.

(iii) Presentation of overall AAP for the agriculture sector of the state will be done by the State Agriculture Secretary to Government of India and the comments of GoI will be given in the meeting itself and minuted.

(iv) The final approval for the consolidated AAP with the comments of GoI will be approved by SLSC headed by the Chief Secretary of the State.

(v) Further consolidated instructions will be issued by the Ministry to State governments where decision making powers will be exercised by the State governments and detailed proposals need not be sent to the Central Government for approval.

S. No.	Activity	Timeframe
1.	Preparation of consolidated AAP by the states and communication to GoI	15th February
2.	Presentation of AAP to the Ministry of A&FW, GoI by the State Agriculture Secretary	February – March (2nd week)
3.	Final Approval by SLSC headed by Chief Secretary of the State.	31st March

4.0 Annual Action Plan Components:

The States will submit the Annual Action Plans towards the following components of SMAM. The funds sharing pattern between Centre and States/UTs will be 60:40 for the normal States, 90:10 for North Eastern and Himalayan States and 100:0 for Union Territories.

S. No.	Component	Implementing Agencies	Financial Assistance	Eligible Beneficiaries	Broad Criteria for Implementation
4.1	**Financial assistance to farmers for procurement of farm machinery and equipments on individual ownership basis**	State Governments/ UTs	(i) Financial assistance @ 50% of the cost of machine for small and marginal farmers, farmers of the Scheduled Caste and Scheduled Tribe category, women farmers and farmers of the North Eastern States and Himalayan Regions. (ii) Financial assistance @ 40% of the cost of machine for all other farmers (iii) The machine-wise maximum permissible assistance is indicated in **Annexure-I**	Farmers	(i) Beneficiaries will be identified by the State/district nodal agencies in a transparent manner. (ii) The areas of having lower level of mechanization may be focused to increase availability of appropriate region and crop specific machines.
4.2	**Establishment of Custom Hiring Centres (CHCs)**	State Governments/ UTs	(i) Financial assistance @ 40% of the project cost for the projects costing up to Rs. 250 lakhs (ii) The maximum permissible assistance	Rural Entrepreneurs (Rural youth and farmer as an entrepreneur),	(i) Custom Hiring Centres of location and crop specific farm machinery and equipments, Post-Harvest Technology and Value addition machinery and

			per machine under the project will be the maximum permissible assistance indicated against 40% in **Annexure-I** (iii) Financial assistance to the agriculture graduate for establishment of Kisan Drone CHCs will be @ 50% of the basic cost of agricultural drone and its attachments or Rs. 5.00 lakhs, whichever is less. (iv) The CHCs will be established under the model of Credit Linked Back Ended Capital Subsidy as per the broad guidelines indicated in **Annexure-II**	Cooperative Societies of Farmers, DAY-NRLM Self Help Groups (SHGs), Registered Farmers Societies, Farmer Producer Organizations (FPOs) and Panchayats	precision farming technologies including Kisan Drones 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) Any business model including the PPP models may be adopted for expanding the reach of mechanization through CHCs. (iv) It will be necessary to maintain, upgrade the CHCs from time to time (v) From within the allocations made by the States towards CHCs/Hi-Tech Hubs, an allocation of 10% of the funds shall be earmarked towards SHGs under DAY-NRLM through State Rural Livelihood Mission (SRLM) and through Agriculture Department of the respective States. (vi) For Kisan Drone CHCs, the beneficiary should have passed his tenth examination or its

					equivalent from a recognized Board and should have a trained drone pilot for operation of drone.
4.3	**Establishing Village Level Farm Machinery Banks (FMBs)**	State Governments	(i) Financial assistance @ 80% of the project cost for the projects costing up to Rs. 30.00 lakhs/project. (ii) The beneficiaries may take up the projects costing more than Rs. 30 lakhs. In such cases, the maximum permissible financial assistance will be restricted to Rs. 24 lakhs/project. (iii) The maximum permissible financial assistance on individual machines under the farm machinery projects may be arrived by doubling the maximum permissible subsidy of 40% as indicated in **Annexure-I.** (iv) The FMBs with the project cost above Rs. 10 lakhs will be established under the model of Credit Linked Back Ended Capital Subsidy as per the	Cooperative Societies of Farmers, Registered Farmer Societies, Self Help Groups, FPOs and Panchayats	(i) The Farm Machinery Banks may be established in the Villages having low level of mechanization and preferably in the most vulnerable rainfed districts identified for priority treatment indicated in the Report, "Prioritization of Districts for Development Planning in India – A Composite Index based Approach". The villages under Aspirational Districts should also be given preference. (ii) From within the allocations made by the States towards FMBs, an allocation of 10% of the funds may be earmarked towards SHGs through State Rural Livelihood Mission (SRLM) and through Agriculture Department of the respective States. (iii) Farm Machinery Banks may provide crop specific mechanization services to the farmers in the region including processing, value addition and crop by-

			broad guidelines indicated in **Annexure-II**		product management. (iv) Women Groups may be encouraged to take up processing, value addition activities through the FMBs. (v) The Women Self Help Gropus identified under Namo Drone Didi Scheme should be given preference for purchase of Multi-utility machines, which may also be used for drone transport. (vi) Not more than one tractor may be allowed under the projects.
4.4	**Promotion of Agricultural Mechanization in North Eastern Region**	NER State Governments.	(i) For purchase of machines by the farmers on individual ownership basis, financial assistant @ 100% of cost of machine costing up to Rs. 1.25 lakhs will be provided.	Farmers	(i) Beneficiaries will be identified by the State/district nodal agencies in a transparent manner.
			(ii) For establishment of Farm Machinery Banks (FMBs), financial assistance @ 95% of the project cost for the projects costing up to Rs. 30.00 lakhs. (iii) The beneficiaries may take up the projects costing more than Rs. 30 lakhs. However, the	Cooperative Societies of Farmers, Registered Farmer Societies, Self Help Groups (SHGs), FPOs and Panchayats	As indicated against 4.3

			maximum permissible financial assistance will be restricted to Rs. 28.50 lakhs/project. (iv) The maximum permissible assistance per machine under the Farm Machinery Bank project will be calculated by multiplying the maximum permissible assistance indicated against 50% in Annexure-I by 2 (Two) and then again multiplying the same by 0.95. (v) The FMBs with the project cost above Rs. 10 lakhs will be established under the model of Credit Linked Back Ended Capital Subsidy as per the broad guidelines indicated in Annexure-II		
4.5	**Financial Assistance for Mechanized operations**	State Governments/ UTs	(i) The financial assistance to the small and marginal farmers of low mechanized regions will be provided @ 2000/ha for hiring of Drones from the Custom Hiring Centres,	Small and Marginal Farmers	(i) The States shall sign necessary MoUs with CHCs and Women SHGs for providing services of drones to the small and marginal farmers. (ii) The area of kisan drone application should be

			Women SHGs. (ii) This assistance will be available up to 2 ha land in a year. The amount of assistance will be proportionate to the actual land owned by the farmers.		georeferenced and monitored online and financial assistance should flow to the farmers through DBT

5.0 Central Components (100% funded by Central Government):

S. No.	Component	Implementing Agencies	Financial Assistance	Broad Criteria for Implementation
5.1	**Demonstration of newly developed agricultural/ horticultural/ crop residue management machines post-harvest technologies and Kisan Drones at farmers' fields.**	FMTTIs, State identified institutions, ICAR institutions, ATMA institutions, KVKs under ICAR/SAUs, National Innovation Foundation (NIF), PSUs of GOI, FPOs.	(i) Depending on the requirements, the implementing agencies (except the FPOs) will be provided grants @ 100% of the cost for purchase of machinery and equipments including Kisan Drones for conducting their demonstrations on the farmers' fields. (ii) The FPOs will be provided grants @ 75% of the cost of machines including the kisan Drones. (iii) The Implementing agencies which do not want to purchase the machines for demonstration, will hire the machines to be demonstrated from the	(i) All these demonstrations should be georeferenced and properly monitored. (ii) All the demonstrations will be uploaded on the Krishi MApper (iii) The machines procured for demonstration may also be used for Custom Hiring to the farmers at reasonable rent. (iv) The funds provided as contingent expenditure may be used towards hiring of machines along with implements/ self-propelled machines/Kisan Drones, expenditure towards hands on training and miscellaneous expenditure such as expenditure towards transport, labour, publicity and printing of technical literature etc. However, these funds should not be used for recruitment of staff, TA/DA of staff, purchase of

			Custom Hiring Centres. In such proposals, financial assistance @ Rs. 6000 per hectare to meet contingency expenditure will be provided. (iv) The rate of grant to meet the contingent expenditure will be Rs. 3000/- per hectare in the case of the implementing agencies that will be provided grants for purchase of equipments and machines for demonstration. (v) Expenditure over and above specified limits will be borne by respective institutions.	computer, video camera, vehicle etc. or for any construction. (v) The implementing agencies will engage Krishi Sakhis for collecting and uploading of data/pictures of demonstration and geo-plotting/polygon mapping of demonstrations on Krishi MApper. A resource fee of Rs. 100 per hectare will be paid to the Krishi Sakhis from within the contingent funds of demonstration. The Krishi Sakhis will be digitally skilled to use the Krishi MApper App. (vi) The Institutions under ICAR, SAUs and other Central institutions may submit their proposals directly. However, the institutions under State Governments will have to route their proposals through State Department of Agriculture/ Agricultural Engineering.
5.2	**Skilling in field of farm mechanization, post-harvest management and Kisan Drones**	FMTTIs, State identified institutions, ICAR institutions, ATMA institutions, KVKs under ICAR/SAUs	(i) Assistance will be available as per the Common Norms for Skill Development Schemes of the Government of India as notified by the Ministry of Skill Development & Entrepreneurship (as may be amended from time to time). (ii) Depending on the requirements the	(i) The Farm Machinery Training & Testing Institutes (FMTTIs) will organize skill development programmes as indicated in Annexure –III(A) and III(B). (ii) The States may also identify the institutions for organizing the skill development programmes as indicated in Annexure- III (B). (iii) The skilling on Kisan Drones may be taken through Remote Pilot

			implementing agencies will be provided financial assistance (100 % grant-in-aid) for purchase of machinery and equipments for conducting training.	Training Organizations (RPTOs). (iv) All implementing agencies will monitor the outcome of training in terms of employment generation, self-employment, improvement in productivity/ skills etc. (v) The Institutions under ICAR, SAUs and other Central institutions may submit their proposals directly. However, the institutions under State Governments will have to route their proposals through State Department of Agriculture/ Agricultural Engineering.
5.3	**Testing of agricultural machines and equipments for performance evaluation**	FMTTIs and Authorized Centres under ICAR/SAUs/State/ Central Governments	(i) The implementing institutions will be provided one time grant of Rs. 1.5 crores each as per their proposals for augmenting the facilities and infrastructure for testing. (ii) Additional grants up to Rs. 1.00 Crore over and above the one time grant may be provided for creating additional testing facilities for testing of new machines as may be approved by DA&FW.	(i) The grants provided will not be utilized to meet the recurring expenditure on testing activities and purchase of vehicles etc. (ii) The FMTTIs will test the machines and equipments as per their authorization. (iii) 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. Other equipments may be tested as per the separate authorization issued to individual centers by DA&FW. (iv) The testing charges for the machines and equipments may be as fixed by the Department of

				Agriculture & Farmers Welfare. (v) All the institutions shall scrupulously follow the Test Regulations and all other guidelines issued by the Department of Agriculture & Farmers Welfare from time to time (vi) The Institutions under ICAR, SAUs and other Central institutions may submit their proposals for financial assistance directly to DA&FW. However, the institutions under State Governments will have to route their proposals through State Department of Agriculture/ Agricultural Engineering.

Note:

1. The States may, if they so desire, set aside 25% of budget (including the Central and State Share) as flexi funds to be spent on any sub-scheme or component or innovation that is in line with the overall aim and objective of the approved scheme. In this regard the guidelines for Flexi funds within Centrally Sponsored Schemes of Department of Expenditure vide Office Memorandum No. 55(5)/PF-II/2011 dated 6th September 2016 shall be scrupoulously follwed.
2. For the financial assistance for kisan drone, the dones may be supplied as a package as indicated in the Operational Guidelines of Namo Drone Didi Scheme. The Kisan Drone specification and training syllabus for drone pilot shall also be as per Operational Guidelines of Namo Drone Didi Scheme.
3. 1% of annual outlay of SMAM will be earmarked for incurring administrative and other contingent expenses by the States.

6.0 Other Guidelines for Smooth implementation of the Scheme:

(i) The manufacturers eligible for supply of machines based on machine quality conforming to standard specifications, relevant and valid test report of the authorized testing institution and availability of product warranty & after sales service infrastructure from the manufacturer etc. shall be empanelled by the States. The States shall ensure that the cost of machines are reasonable compared to the open market prices of the machines. The manufacturers shall observe transparency in selling prices and the product warranty including after sales services intended to be provided to the farmers/beneficiaries. The maximum selling prices should be displayed on the websites of the manufacturers and also in the dealers shop.

(ii) The farmers/beneficiaries will be at their liberty to choose any machine/equipment and its variants depending on their requirements and as per their choice from within the empanelled manufacturers by the States and may negotiate the final price after bargaining with the manufacturer/dealer and the beneficiary will be eligible to get the applicable subsidy through DBT.

(iii) In the interest of promoting make in India and Atm-Nirbhar Bharat, it is desired that the States should not impose huge amount of Earnest Money Deposit (EMD) and Performance Security, as the manufacturers in small scale sector gets deprived of their participation in the process carried out by the State Governments for supply of machines under the scheme. The Performance Security, if at all necessary, may be 3-5% of the value of the contract and may be furnished in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a commerciual Bank, Bank Guarantee (including e-Bank Guarantee) from a commercial bank or online payment in acceptable form safeguarding the purchasers interest in all respects. Insisting on adequate after sales service infrastructure and blacklisting of the firms for failing to meet their obligations may also be adopted.

(iv) A comprehensive online system should be developed for implementing the farm mechanization programmes in the States and it should have arrangements for data sharing on Central portal i.e. https://agrimachinery.nic.in. The States which does not have their online portals will have to be on-boarded on the Central portal.

(v) Manufacturers/suppliers that have tested their products either from FMTTIs or any identified institute by DA&FW will only be eligible for supply of machines. The requirement of test report for the agricultural implements and tools costing less than 50,000 (Fifty thousand) may not be necessary. For such machines, self-certification for the desired specification/ quality/ performance of agricultural implements and tools may be accepted from manufacturers. However, the test report of the FMTTIs or authorized testing institutions may be mandatory for the first time manufacturer of such agricultural implements and tools.

(vi) The agricultural implements and tools costing less than Rs. 50,000 (Fifty thousand) as at SI. No (v) above covers only hand tools, non-powered

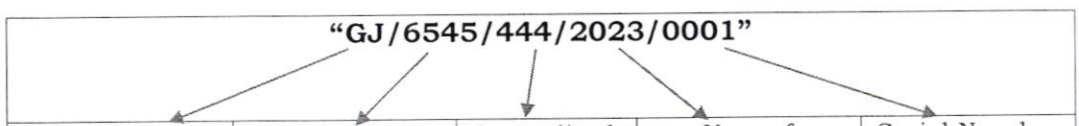
horticultural & garden tools, animal /manual/ implements required for land preparation/sowing & planting/inter-cultivation/harvesting and threshing/ transportation operations, tractor drawn conventional/ mechanical implements such as ploughs, harrows, seed drills etc. However, a system of random pre/post-dispatch checks of above agricultural implements and tools shall be evolved by the State Governments and if the situation warrants, randomly picked up samples of such agricultural implements and tools shall be tested/ retested from any FMTTI or any authorized testing centre of DA&FW for asserting their specifications, performance and quality.

(vii) Every machine costing Rs. 1.00 lakh and above supplied under the scheme shall mandatorily be georeferenced. The self-propelled machines costing Rs. 1.00 lakh and above such as tractors, self-propelled crop reaper/reaper cum binders etc. supplied to individual farmers and Custom Hiring Centres should be installed with app based AI-powered telematics kit which can track the live movement & location of machine and keep the daily record of work done by the machine. The dashboard of the telematics kit shall be available with the beneficiary of the machines/CHCs and the district as well as State Nodal officer of the scheme. The telematics kit shall be provided by the manufacturers as standard attachment on their machines manufactured after 1st June 2023. The establishment of CHCs should be georeferenced and it should be mandatorily uploaded on the 'FARMS' Mobile App

(viii) It shall be mandatory that the all the Data of Custom Hiring Centres/Farm Machinery capital assets under the scheme including the demonstrations conducted shall mandatorily be uploaded on the Krishi MApper.

(ix) The Soil Health Card may be necessary for getting the subsidy under the Scheme. If the beneficiary do no possess any Soil Health Card, the soil sample may be collected from the beneficiary and it may be tested for Soil Health Card generation. The expenditure may be adjusted with the subsidy amount of the beneficiary.

(x) The machines supplied under the subsidy programmes should have a standardized unique identification code provided on the body of the machine by laser cut through methods in such a way that it is clearly identifiable, visible and is tamperproof. The guidelines for providing the serial number are as under:



Manufacturing State Code	Manufacturers ID	Centralized Implement Code	Year of Manufacturing	Serial Number of Machines Manufactured
Auto generated through https://agrimachinery.nic.in/ portal			To be provided by the manufacturer	

(a) The type of letter should be 'Arial Bold, size of letter should be 25 mm. However, depending on the machine design and space constraints for various machines, the manufacturers are allowed the font size lesser than the indicated one which can be conveniently put on the body of the machine provided that the code is clearly identifiable and visible on the machines.

(b) All the manufacturers have to register themselves on 'agrimachinery.nic.in' portal and needs to obtain the registration number.

(c) The agricultural implement/ machinery costing Rs. 1.00 lakh and more should have laser cut serial number on the main frame which can be viewed from front side of the implement/machinery and the implements/machines on which laser cut serial number is not possible, should place of laser cut serial number plate by welding it on the main frame which can be viewed from front side of the implement/machinery.

(d) The agricultural implements/machines costing less than Rs. 1.00 lakh should have engraved serial number on the location of main frame which can be viewed from front side of the implement/machinery.

(e) The implements/machines having fiber or plastic body on which laser cutting serial number is not possible, such implement/machine should have engraved serial number

(f) The manufacturers those who may exhaust the 4 digit serial number due to their higher production capacities for any particular machine, the States may allow the manufacturers to use up to 6 digits serial number.

(g) This unique serial number coding system shall be accepted by all the States and there shall not be any State specific coding system.

(h) Apart from unique identification code, every machine shall also be provided with labeling plate firmly attached by riveting, hammer drive screws or welding in a conspicuous and readily accessible position on a part which is normally not likely to be replaced during use. It shall show clearly and indelibly the information (1) Complete name and address of the manufacturer (ii) Make & Model of the machine (iii) Type and size of machine (iv) Unique identification code of the machine (v) Month and year of manufacture (vi) Required size of prime mover.

7.0 Scheme Monitoring

a) Mechanization & Technology (M&T) Division of Department of Agriculture & farmers Welfare will be responsible for implementing and monitoring of the Scheme as under:

(i) Visit the states regularly and frequently to provide guidance in organizational and technical matters.

(ii) Help in the implementation, monitoring and evaluation of various interventions in the scheme and provide feedback reports

(iii) 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.

(iv) Undertake publicity/information campaign to create awareness on farm mechanization, document and disseminate the success stories.

(v) Assist the State Agencies in concurrent evaluation based on performance indicators

(vi) Assess state-wise farm power status, availability and existing gap and identify the future requirements

(vii) In order to enrich the knowledge base of the technical personnel/progressive farmers involved in the scheme, exposure visit/training of technical staff /officers at International organizations like IRRI, ICRISAT, CSAM China, NIAE Korea, JICA Japan, NTTL USA etc. or any other research organization in farm mechanization within the country and abroad would be organized.

(viii) 1% of annual outlay of the Sub-Mission will be earmarked for incurring administrative and other contingent expenses towards the above.

Annexure-I

Pattern of Assistance and Maximum Permissible Subsidy

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 (Rs in Lakhs)	Pattern of Assistance	Maximum Permissible subsidy per Machine/ Equipment per beneficiary (Rs. in Lakhs)	Pattern of Assistance
Tractors				
(i) Tractor 2WD (up to 20 PTO HP)	2.00	50%	1.60	40%
(ii) Tractor 4WD (up to 20 PTO HP)	2.45	50%	1.96	40%
(iii) Tractor 2WD (above 20 PTO HP and up to 40 PTO HP)	3.00	50%	2.4	40%
(iv) Tractor 4WD (above 20 PTO HP and up to 40 PTO HP)	3.60	50%	2.88	40%
(v) Tractor 2WD (above 40 PTO HP and up to 50 PTO HP)	4.50	50%	3.60	40%
(vi) Tractor 4WD (above 40 PTO HP and up to 50 PTO HP)	5.45	50%	4.36	40%
(vii) Tractor 2 WD (Above 50 PTO HP)	6.00	50%	4.80	40%
(viii) Tractor 2 WD (Above 50 PTO HP)	6.50	50%	5.20	40%
Power Tillers				
(i) Power Tiller (8 BHP and up to 11 BHP)	1.00	50%	0.80	40%
(ii) Power Tiller (Above 11 BHP)	1.20	50%	1.00	40%
Combine Harvesters				
(i) Combine Harvester (self-propelled)	9.60	50%	7.68	40%
(ii) Combine Harvester -Tractor powered (without tractor)	3.60	50%	2.88	40%
(iii) Combine Harvester -Tractor powered (with tractor)	8.70	50%	6.96	40%
(iv) Combine Harvester-Chopper-Collector – Tractor Mounted (without tractor)	4.00	50%	3.20	40%
(v) Combine Harvester-Chopper-Collector – Tractor Mounted (with tractor)	7.75	50%	6.20	40%
(vi) Combine Harvester (Track Type)- <6 feet cutter bar width	8.40	50%	6.72	40%
(vii) Combine Harvester (Track Type) - > 6 feet cutter bar	12.50	50%	10.00	40%

	width)				
(viii)	Combine harvester (Tractor Operated) for potato, groundnut, and other tuber crops	12.00	50%	9.60	40%
(ix)	Sugarcane harvester (Self Propelled) –Wheel type/Track type (Full/Half) (To be procured by the Custom Hiring Centres only)	50.00	50%	40.00	40%
(x)	Maize Combine Harvester (Self-propelled)	12.00	50%	9.60	40%
Kisan Drone -		5.00	50%	4.00	40%
Rice/Paddy Transplanter					
(i)	Self-Propelled Rice Transplanter – walk behind type (4 rows)	1.70	50%	1.36	40%
(ii)	Self-Propelled Rice Transplanter- 4 rows and up to 8 rows including riding type	6.00	50%	4.80	40%
(iii)	Self-Propelled Rice Transplanter- above 8 rows - riding type	8.60	50%	6.88	40%
Self-Propelled Machinery Agricultural/Horticultural Machinery					
(i)	Crop Reaper cum Binder (3 wheel)	1.90	50%	1.52	40%
(ii)	Crop Reaper cum Binder (4 wheel)	2.75	50%	2.20	40%
(iii)	Power Weeder (engine operated below 2 BHP)	0.30	50%	0.24	40%
(iv)	Power Weeder (engine operated 2 BHP and below 5 BHP)	0.40	50%	0.32	40%
(v)	Power Weeder (engine operated 5 BHP and below 7.5 BHP)	0.75	50%	0.60	40%
(vi)	Power Weeder (engine operated 7.5 BHP and above)	0.85	50%	0.68	40%
(vii)	Crop Reaper (Diesel/Petrol engine operated and Battery operated)	0.85	50%	0.68	40%
(viii)	Post Hole Digger/Auger – self propelled	0.20	50%	0.16	40%
(ix)	Pneumatic/Other planter	1.25	50%	1.00	40%
(x)	Areca nut climber harvester	0.30	50%	0.24	40%
(xi)	Tea leaf harvester (Hand held)	0.11	50%	0.088	40%
(xii)	Self-propelled 4 wheel tea leaf harvester	15.00	50%	12.00	40%
(xiii)	Self-Propelled Tool Bar (Ride on Type)	1.55	50%	1.24	40%
(xiv)	Self-Propelled electric agricultural Tool Bar	1.75	50%	1.40	40%

(xi) Track Trolley	2.10	50%	1.68	40%
(xii)				
(xiii) Nursery Media Filling Machine	2.10	50%	1.68	40%
(xiv) Multipurpose Hydraulic System	2.10	50%	1.68	40%
(xv) Power operated horticulture tools for pruning, budding, grating, shearing etc.	0.35	50%	0.28	40%
(xvi) Brush Cutter (Electric/Engine Powered)	0.25	50%	0.20	40%
(xvii) Self-propelled Maize Harvester	0.85	50%	0.68	40%
(xviii) Electric Tiller/Weeder	0.63	50%	0.504	40%
(xix) Self-Propelled Forage Harvester				
(a) Single Row	1.50	50%	1.20	40%
(b) Two Row	7.00	50%	5.60	40%
(c) Four Row	9.50	50%	7.60	40%
Tractor/Power Tiller (below 20 BHP) driven equipments.				
A. Land Development, tillage and seed bed preparation equipments:				
(i) MB Plough (Single Bottom)	0.22	50%	0.176	40%
(ii) MB Plough (Single Bottom-Reversible)	0.25	50%	0.20	40%
(iii) Disc Plough	0.25	50%	0.20	40%
(iv) Cultivator	0.20	50%	0.16	40%
(v) Harrow	0.15	50%	0.12	40%
(vi) leveler Blade	0.16	50%	0.128	40%
(vii) Cage wheel	0.15	50%	0.12	40%
(viii) Furrow opener	0.25	50%	0.20	40%
(ix) Ridger	0.20	50%	0.16	40%
(x) Weed Slasher	0.20	50%	0.16	40%
(xi) Furrow opener	0.20	50%	0.16	40%
(xii) Bund former	0.25	50%	0.20	40%
(xiii) Crust breaker	0.10	50%	0.08	40%
(xiv) Rotopuddler	0.13	50%	0.104	40%
(xv) Rotocultivator	0.44	50%	0.352	40%
(xvi) Power Harrow	0.45	50%	0.36	40%
(xvii) Rotavator (up to 4 ft.)	0.45	50%	0.36	40%
(xviii) Chisel Plough	0.15	50%	0.12	40%
B. Sowing, Planting, Reaping and Digging Equipments:				
(i) Post Hole digger	0.40	50%	0.32	40%
(ii) Potato Planter	0.33	50%	0.264	40%
(iii) Potato Digger	0.30	50%	0.24	40%
(iv) Ground nut digger	0.18	50%	0.144	40%
(v) Strip till drill (5 tines)	0.60	50%	0.48	40%
(vi) Tractor drawn crop reaper/ reaper cum binder	0.33	50%	0.264	40%
(vii) Onion harvester	0.33	50%	0.264	40%
(viii) Rice straw Chopper	0.25	50%	0.20	40%
(ix) Raised Bed Planter	0.25	50%	0.20	40%

(x)	Sugar cane cutter/Stripper planter (5 tines)	0.33	50%	0.264	40%
(xi)	Multi crop planter (5 tines)	0.28	50%	0.224	40%
(xii)	Ridge furrow planter	0.23	50%	0.184	40%
(xiii)	Pneumatic Planter	0.75	50%	0.60	40%
(xiv)	Pneumatic vegetable transplanter	0.75	50%	0.60	40%
(xv)	Pneumatic vegetable seeder	0.75	50%	0.60	40%
(xvi)	Plastic Mulch Laying Machine	0.23	50%	0.184	40%
(xvii)	Raised Bed Planter with inclined plate metering and shaper attachment. (5-7tines)	0.43	50%	0.344	40%
(xviii)	Seed treating drum	0.17	50%	0.136	40%
(xix)	Seed cum fertilizer drill(5tines)	0.17	50%	0.136	40%
(xx)	Aqua ferti seed drill (5-7tines)	0.17	50%	0.136	40%
(xxi)	Lateral laying machine	0.40	50%	0.32	40%
C. Inter Cultivation Equipments:					
(i)	Grass Weed Slasher	0.25	50%	0.20	40%
(ii)	inter row cum intra row weeder	0.18	50%	0.144	40%
D. Equipments for Residue management/Hay and Forage Equipments:					
(i)	Sugarcane thrash Cutter	0.25	50%	0.20	40%
(ii)	Coconut Frond Chopper	0.30	50%	0.24	40%
(iii)	Stubble shaver	0.28	50%	0.224	40%
E. Harvesting & Threshing Equipments (Operated by engine/electric motor below 3 hp and by power tiller, and tractor of below 20 BHP tractor):					
(i)	Ground Nut Pod Stripper	0.40	50%	0.32	40%
(ii)	Thresher	0.38	50%	0.304	40%
(iii)	Multi crop Threshers	0.40	50%	0.32	40%
(iv)	Paddy Thresher	0.38	50%	0.304	40%
(v)	Brush Cutter (Electric/Engine Powered)	0.20	50%	0.16	40%
(vi)	Winnowing fan	0.30	50%	0.24	40%
(vii)	Maize Sheller	0.33	50%	0.264	40%
(viii)	Mower	0.30	50%	0.24	40%
(ix)	Flail Harvester	0.30	50%	0.24	40%
(x)	Mower Shredder (ALL PURPOSE/All crops)	0.30	50%	0.24	40%
F. Chaff Cutter (Operated by engine/electric motor below 3 HP and by power tiller and tractor of below 20 BHP tractor)		0.25	50%	0.20	40%
Tractor (above 20- 35 BHP) driven equipments.					
A. Land Development, tillage and					

seed bed preparation equipments:				
(i) MB Plough (Single Bottom)	0.35	50%	0.28	40%
(ii) Disc Plough	0.25	50%	0.20	40%
(iii) MB Plow (Single Bottom Reversible)	0.35	50%	0.28	40%
(iv) Cultivator	0.18	50%	0.144	40%
(v) Harrow	0.28	50%	0.224	40%
(vi) Leveler Blade	0.18	50%	0.144	40%
(vii) Cage wheel	0.18	50%	0.144	40%
(viii) Ridger	0.15	50%	0.12	40%
(ix) Weed slasher	0.23	50%	0.184	40%
(x) Rotopuddler	0.63	50%	0.504	40%
(xi) Furrow opener	0.18	50%	0.144	40%
(xii) Bund former	0.13	50%	0.104	40%
(xiii) Crust breaker	0.13	50%	0.104	40%
(xiv) Rotocultivator	0.43	50%	0.344	40%
(xv) Power Harrow	0.63	50%	0.504	40%
(xvi) Rotavator up to 5 feet	0.46	50%	0.368	40%
(xvii) Chisel Plough	0.25	50%	0.20	40%
(xviii) MB Plow (Two Bottom - Hydraulic Reversible)	0.71	50%	0.568	40%
(xix) MB Plow (Two Bottom - Mechanical Reversible)	0.40	50%	0.32	40%
(xx) Laser Land Leveller	2.00	50%	1.60	40%
B. Sowing, Planting, Reaping and Digging Equipments:				
(i) Post Hole digger	0.44	50%	0.352	40%
(ii) Potato Planter	0.70	50%	0.56	40%
(iii) Potato Digger	0.65	50%	0.52	40%
(iv) Ground nut digger	0.70	50%	0.56	40%
(v) Crop reaper	0.80	50%	0.64	40%
(vi) Onion harvester	0.75	50%	0.60	40%
(vii) Raised Bed Planter	0.70	50%	0.56	40%
(viii) Sugar cane cutter/Stripper	0.70	50%	0.56	40%
(ix) Multi crop planter	0.50	50%	0.40	40%
(x) Ridge furrow planter	0.45	50%	0.36	40%
(xi) Zero –Till Drill - Multi Crop (7 tines)	0.23	50%	0.184	40%
(xii) Seed treating drum	0.18	50%	0.144	40%
(xiii) Seed cum fertilizer drill (7 tines)	0.23	50%	0.184	40%
(xiv) Direct Rice Seeder (DSR- 7 tines)	0.23	50%	0.184	40%
(xv) Pneumatic Planter (04 rows)	2.00	50%	1.60	40%
(xvi) Pneumatic vegetable transplanter	2.00	50%	1.60	40%
(xvii) Pneumatic vegetable seeder	2.00	50%	1.60	40%
(xviii) Plastic Mulch Laying Machine	0.50	50%	0.40	40%
(xix) Aqua ferti seed drill (9tines)	0.75	50%	0.60	40%
(xx) Raised Bed Planter with inclined plate metering and shaper attachment	0.83	50%	0.664	40%
C. Inter Cultivation Equipments:				

(i)	Grass Weed Slasher	0.39	50%	0.312	40%
(ii)	Inter row cum intra row weeder	0.50	50%	0.40	40%
D. Equipments for Residue management/Hay and Forage and Transport Equipments:					
(i)	Sugarcane thrash Cutter	0.50	50%	0.40	40%
(ii)	Coconut Frond Chopper	0.50	50%	0.40	40%
(iii)	Rake (small capacity)	1.10	50%	0.88	40%
(iv)	Balers(Round) (up to 16 kg per bale)	2.20	50%	1.76	40%
(v)	Balers(Round) (Above 16 and up to 25 kg per bale)	2.40	50%	1.92	40%
(vi)	Straw reaper	0.75	50%	0.60	40%
(vii)	Feed block machine(100- 200 kg/hr)	1.50	50%	0.96	40%
(viii)	Stubble shaver	0.43	50%	0.344	40%
(ix)	Straw Chopper/Shredder/Mulcher Mounted type 5 ft	0.725	50%	0.58	40%
(x)	Trailer/Trolley (upto 3 Ton capacity)	0.75	50%	0.60	40%
(xi)	Trailer/Trolley (upto 5 Ton capacity)	1.00	50%	0.80	40%
(xii)	Narrow Rear Rim (one pair) for tractors	0.08	50%	0.064	40%
(xv)	Tractor front mounted straw loader/grabber	0.75	50%	0.60	40%
E. Harvesting & Threshing Equipments (Operated by engine/electric motor below 5 BHP and tractor of below 35 BHP					
(i)	Ground Nut Pod Stripper	0.50	50%	0.40	40%
(ii)	Thresher	1.00	50%	0.80	40%
(iii)	Multi crop Threshers	1.25	50%	1.00	40%
(iv)	Paddy Thresher	1.00	50%	0.80	40%
(v)	Brush Cutter (Electric/Engine Powered)	0.44	50%	0.352	40%
(vi)	Maize Sheller	1.00	50%	0.80	40%
(vii)	Mower	0.40	50%	0.32	40%
(viii)	Flail Harvester	0.40	50%	0.32	40%
(ix)	Mower Shredder (ALL PURPOSE/All crops)	0.75	50%	0.60	40%
(x)	Crop Reaper cum binder (tractor drawn)	1.25	50%	1.00	40%
F. Chaff Cutter (Operated by engine/electric motor above 3- 5 HP and by tractor of below 35 BHP)		0.34	50%	0.272	40%
Tractor (above 35 BHP) driven equipments.					
A. Land Development, tillage and seed bed preparation equipments:					
(i)	Disc Plough (3 Bottom)	0.50	50%	0.40	40%

(ii)	Cultivator (9-13 tines)	0.25	50%	0.20	40%
(iii)	Harrow – Mounted Type	0.50	50%	0.40	40%
(iv)	Harrow – Trailed type	0.50	50%	0.40	40%
(v)	Leveler Blade	0.70	50%	0.56	40%
(vi)	Cage wheel	0.20	50%	0.16	40%
(vii)	Furrow opener	0.33	50%	0.264	40%
(viii)	Ridger	0.33	50%	0.264	40%
(ix)	Laser Land Leveller				
	6 feet	1.35	50%	1.08	40%
	7 feet	1.40	50%	1.12	40%
	8 feet	1.45	50%	1.16	40%
	9 feet	1.60	50%	1.28	40%
	10 feet	1.70	50%	1.36	40%
	Extended 7-9 feet	1.90	50%	1.52	40%
	Extended 8-10 feet	2.00	50%	1.60	40%
(x)	Rotavator				
a)	6 feet	0.60	50%	0.48	40%
b)	7 feet	0.70	50%	0.56	40%
c)	8 feet	0.73	50%	0.584	40%
d)	9 feet	0.85	50%	0.578	40%
e)	10 feet	0.95	50%	0.76	40%
(xi)	Roto-puddler (7 feet)	0.80	50%	0.64	40%
(xii)	Roto-puddler (10 feet)	1.00	50%	0.80	40%
(xiii)	Reversible Hydraulic MB plough(2 bottom)	0.705	50%	0.564	40%
(xiv)	Reversible Hydraulic MB plough(3 bottom)	0.915	50%	0.732	40%
(xv)	Reversible Mechanical MB plough(2 bottom)	0.36	50%	0.288	40%
(xvi)	Reversible Mechanical MB plough(3 bottom)	0.50	50%	0.40	40%
(xvii)	Reversible Hydraulic MB plough(4 bottom)	1.25	50%	1.00	40%
(xviii)	Sub –Soiler				
	Single Bottom	0.175	50%	0.14	40%
	Two Bottom	0.30	50%	0.24	40%
	Three Bottom	0.55	50%	0.44	40%
	Four Bottom	0.75	50%	0.60	40%
(xix)	Trench makers (PTO operated)	2.00	50%	1.60	40%
(xx)	Bund former (PTO operated)	1.50	50%	1.20	40%
(xxi)	Backhoe /Loader Dozer (Tractor operated)	3.75	50%	3.00	40%
(xxii)	Backhoe (Tractor operated)	1.50	50%	1.20	40%
(xxiii)	Bund former	0.30	50%	0.24	40%
(xxiv)	Crust breaker	0.35	50%	0.28	40%
(xxv)	Rotocultivator	1.00	50%	0.80	40%
(xxvi)	Power Harrow (PTO operated)	1.35	50%	1.08	40%
(xxvii)	Rotary Disc Harrow (PTO powered)	0.75	50%	0.60	40%

(xxviii) Stone collector	1.50	50%	1.20	40%
(xxix) Rotaridger	0.75	50%	0.60	40%
(xxx) Check Basin Former	0.38	50%	0.304	40%
B. Sowing, Planting, Fertigation Equipments:				
(i) Raised Bed Planter	0.55	50%	0.44	40%
(ii) Seed cum fertilizer drill/Zero till Seed cum fertilizer drill/Spatial Zero Till Drill				
a) 9 tines	0.25	50%	0.20	40%
b) 11 tines	0.26	50%	0.208	40%
c) 13 tines	0.28	50%	0.224	40%
d) 15 tines	0.30	50%	0.24	40%
(iii) Direct Rice Seeder (DSR)				
a) 9 tines	0.45	50%	0.36	40%
b) 11 tines	0.48	50%	0.432	40%
c) 13 tines	0.50	50%	0.40	40%
(iv) Inclined Plate Planter with pre-emergence herbicide strip applicator	0.75	50%	0.60	40%
(v) Sugarcane settling Planter (Two Row)	0.63	50%	0.504	40%
(vi) Post Hole digger (24 inch and above)	0.75	50%	0.60	40%
(vii) Potato Planter (automatic)	0.75	50%	0.60	40%
(viii) Ground nut digger	0.45	50%	0.36	40%
(ix) Sugarcane cutter/stripper/ planter	0.75	50%	0.60	40%
(x) Zero –till multi crop planter (9 tines and above)	0.53	50%	0.424	40%
(xi) Multi crop planter (9 tines and above)	0.90	50%	0.72	40%
(xii) Happy/Turbo Seeder/Strip Till (Smart) Seeder				
(a) 09 Tynes	0.814	50%	0.651	40%
(b) 10 Tynes	0.842	50%	0.674	40%
(c) 11 Tynes	0.864	50%	0.691	40%
(d) 12 Tynes	0.902	50%	0.722	40%
(xiii) Super Seeder				
(a) 6 Feet	1.30	50%	1.04	40%
(b) 7 Feet	1.35	50%	1.08	40%
(c) 8 Feet	1.42	50%	1.14	40%
(d) 9 Feet	1.55	50%	1.24	40%
(e) 10 Feet	1.65	50%	1.32	40%
(xiv) Surface Seeder				
(a) 5 Feet	0.60	50%	0.48	40%
(b) 6 Feet	0.68	50%	0.54	40%
(xv) Pneumatic Planter	2.25	50%	1.80	40%
(xvi) Pneumatic, semi-automatic vegetable/multi-seedling	2.25	50%	1.80	40%

transplanter				
(xvii) Pneumatic Vegetable Seeder	2.25	50%	1.80	40%
(xviii) Cassava Planter (9 tines and above)	0.75	50%	0.60	40%
(xix) Manure spreader	1.50	50%	1.20	40%
(xx) Urea Deep Placement Applicator	0.75	50%	0.60	40%
(xxi) Fertilizer Spreader – PTO operated	0.40	50%	0.32	40%
(xxii) Plastic Mulch Laying Machine	0.50	50%	0.40	40%
(xxiii) Automatic rice nursery sowing machinery	1.75	50%	1.40	40%
(xxiv) Aqua ferti seed drill (9 tines and above)	0.75	50%	0.60	40%
(xxv) Raised Bed Planter with inclined plate metering and shaper attachment.	0.60	50%	0.48	40%
(xxvi) Precision Multi-crop Planters	2.50	50%	2.00	40%
(xxvii) Precision Seed Drills	0.80	50%	0.64	40%
(xxviii) Precision fertilizer applicators	2.00	50%	1.60	40%
(xxix) Tractor operated seeder for mat type rice nursery	1.50	50%	1.20	40%
(xxx) Power operated sugarcane sett cutter	0.37	50%	0.296	40%
C. Inter Cultivation Equipments:				
(i) Grass/ Weed Slasher,	0.75	50%	0.60	40%
(ii) inter row cum intra row weeder Weeder (PTO operated)	0.83	50%	0.664	40%
D. Harvesting & Threshing Equipments (Operated by engine/electric motor above 5 hp and tractor of above 35 BHP tractor)				
(i) Ground Nut Pod Stripper	1.00	50%	0.80	40%
(ii) Thresher/Multi crop Threshers upto 4 tonne/hr. capacity	1.25	50%	1.00	40%
(iii) Paddy Thresher	1.40	50%	1.12	40%
(iv) Chaff Cutter	1.00	50%	0.80	40%
(v) Maize Sheller	1.10	50%	0.88	40%
(vi) Crop Reaper cum Binder (tractor drawn)	1.50	50%	1.20	40%

	(vii) Thresher/Multi crop Threshers above 4 tonne/hr capacity at least in 2 crops	2.25	50%	1.80	40%
	(viii) Infielder	1.00	50%	0.80	40%
	(ix) Mower	1.00	50%	0.80	40%
	(x) Flail Harvester	1.25	50%	1.00	40%
	(xi) Mower shredder (All Purpose/All crops	1.25	50%	1.00	40%
	(xii) Potato Digger	0.75	50%	0.60	40%
	(xiii) Tractor operated cassava harvester cum lifter	1.00	50%	0.80	40%
	(xiv) Tractor operated banana bunch harvester	1.00	50%	0.80	40%
	(xv) Motorized Harvesting Sickle/Machine	0.50	50%	0.40	40%
	(xvi) Tractor drawn crop	0.75	50%	0.60	40%
	(xvii) Onion harvester	0.80	50%	0.64	40%
Equipments for Residue management/Hay and Forage Equipments:					
(i)	Sugarcane thrash Cutter,	1.38	50%	1.104	40%
(ii)	Coconut Frond Chopper,	1.50	50%	1.20	40%
(iii)	Hay Rake				
	(a) 6 Arms	1.65	50%	1.32	40%
	(b) 9 Arms	2.00	50%	1.60	40%
	(c) 11 Arms	2.38	50%	1.904	40%
(iv)	Balers				
	(a) Round – Mini up to 16 kg per bale	2.00	50%	1.60	40%
	(b) Round – Medium –above 16 and up to 40 kg per bale)	2.395	50%	1.916	40%
	(c) Round –big more than 180 kg per bale and up to 500 kg per bale)	9.90	50%	7.92	40%
	(d) Round – more big - above 500 kg per bale – to be provided under CHCs projects only	17.00	50%	13.60	40%
	(e) Rectangular – up to 20 kg per bale	6.60	50%	5.28	40%
	(e) Rectangular – more than 200 kg per bale - to be provided under CHCs projects only	17.00	50%	13.60	40%
(v)	Silage Baler (1400-1500 Kg/hr capacity)	3.75	50%	3.00	40%
(vi)	Wood chippers	1.38	50%	1.10	40%
(vii)	Sugarcane ratoon manager	1.25	50%	1.00	40%

(viii) Cotton stalk uprooter	0.75	50%	0.60	40%
(ix) Cotton stalk shredder	0.75	50%	0.60	40%
(x) Straw reaper	1.50	50%	1.20	40%
(xi) Feed block machine (above 200 kg/hr)	3.00	50%	2.40	40%
(xii) Stubble shaver	0.88	50%	0.704	40%
(xiii) Straw Chopper/shredder/ Mulcher				
a) Mounted type 5 ft	0.725	50%	0.58	40%
b) Mounted type 6 ft	0.858	50%	0.686	40%
c) Mounted type 7 ft	0.902	50%	0.722	40%
d) Mounted type 8 ft	0.957	50%	0.766	40%
e) Trailed type	1.471	50%	1.179	40%
f) Trailed (Combo type)	2.00	50%	1.60	40%
(xvi) Super Straw Management System (Super SMS)	0.597	50%	0.478	40%
(xviii) Shrub Master/Cutter cum spreader	0.275	50%	0.220	40%
(xix) Rotary Straw Slasher	0.275	50%	0.220	40%
(xx) Tractor front mounted straw loader/grabber	3.05	50%	2.44	40%
(xxi) Tractor Operated Hydraulic Press Straw Baler	7.00	50%	5.60	40%
(xxii) Rotary Tedder/Hay Tedder (04 Rotors)	2.62	50%	2.10	40%
(xxiii) Rotary Tedder/Hay Tedder (08 Rotors and above)	6.00	50%	4.80	40%
All Manual /Animal drawn equipment/implements/Tools				
A. Land Development, tillage and seed bed preparation equipments: (i) MB Plow/Wedge Plough (ii) Disc Plow (iii) Cultivator (iv) Harrow (v) Leveler/Planker (vi) Furrow opener (vii) Ridger/bund former (viii) Puddler (ix) Mulch laying machine (x) Digger (Turmeric/Ginger)	0.10	50%	0.08	40%
B. Sowing and Planting Equipments: (i) Paddy planter (ii) Cotton Planter (iii) Seed cum fertilizer drill (iv) Raised Bed Planter (v) Planter/ zero-till-planter for	0.10	50%	0.08	40%

multi crop use (vi) Dibbler (vii) Equipments for raising paddy nursery (viii) Marker for SRI (ix) Seed treating drum (x) Rice-wheat seeder				
(xi) Drum Seeder (Below 4 Row)	0.03	50%	0.025	40%
(xii) Drum Seeder (Above 4 Row)	0.04	50%	0.04	40%
(xiii) Stubble Collector	0.030	50%	0.024	40%
C. Harvesting & Threshing Equipments: (i) Ground Nut Pod Stripper (ii) Thresher (iii) Winnowing fan (iv) Tree climber (v) Horticulture Hand tools (vi) Maize sheller (vii) Feed block machine (viii) Spiral grader	0.10	50%	0.08	40%
(vi) Chaff Cutter (up to 3 feet)	0.06	50%	0.048	40%
(vii) Chaff Cutter (above 3 feet)	0.070	50%	0.056	40%
(viii) Manual Cotton Pluckers (12 V battery operated)	0.040	50%	0.032	40%
(ix) Manual Harvesting Tool (Scythe)	0.030	50%	0.024	40%
(x) Telescopic harvesting Poles	0.050	50%	0.040	40%
D. Inter Cultivation Equipments: (i) Grass Weed Slasher, (ii) inter row cum intra row weeder (iii) Cono Weeder (iv) Garden Hand Tools	0.012	50%	0.010	40%
E. Manual Battery Operated Fertilizer Spreader/Broadcaster (Capacity 3-5 Litre)	0.031	50%	0.025	40%
SELF PROPELLED/OTHER POWER DRIVEN HORTICULTURAL MACHINERY				
(i) Chain Saw /Wheel Barrow /Mango Grader/Planter and other suitable self-propelled machineries and equipments for horticulture crops.	0.45	50%	0.36	40%
Manual Horticultural equipments				
(i) Aluminium Ladder/Ladder	0.15	50%	0.12	40%
(ii) Aluminium Pole	0.13	50%	0.104	40%
(iii) Plucker	0.05	50%	0.04	40%
Post-Harvest and Value addition Equipments for food grains, Oilseeds and Horticultural				

Equipments				
(a) **Mini Rice Mill**				
(i) Up to 0.5 TPH	1.50	50%	1.20	40%
(ii) More than 0.5 TPH and up to 1.0 TPH	1.80	50%	1.44	40%
(iii) Above 1.0 TPH	2.40	50%	1.92	40%
(b) **Composite Rice Milling Plant consisting of cleaner cum grader, de-stoner, separator, polisher and elevator**				
(i) Capacity more than 500 kg/hr and below 1000 kg/hr	5.40	50%	4.32	40%
(ii) Capacity - 1000 kg/hr and above	9.60	50%	7.68	40%
(c) **Mini Dal Mill**				
(i) Capacity less than 50 kg/hr	1.20	50%	0.96	40%
(ii) Capacity -50 kg/hr and below 100 kg/hr	1.80	50%	1.44	40%
(iii) Capacity - 100kg/hr and below 150 kg/hr	2.70	50%	2.16	40%
(iv) Capacity -150 kg/hr and above	3.50	50%	2.80	40%
(d) **Millet Mill**				
(i) Capacity – 40-60 kg/hr	0.60	50%	0.48	40%
(ii) Capacity – More than 60 kg/h and below 100 kg/hr	0.90	50%	0.72	40%
(iii) Capacity 100 kg/hr and above	5.40	50%	4.32	40%
(e) **Millet Processing Plant consisting of Millet Mill, Cleaner cum Grader, De-stoner and elevators**				
(i) Capacity from 100 to 200 kg/hr	5.40	50%	4.32	40%
(ii) Capacity more than 200 kg/hr	9.60	50%	7.68	40%
(f) Multipurpose Millet Thresher	0.30	50%	0.24	40%
(g) Double Stage Millet de-husker	0.90	50%	0.72	40%
(h) Centrifugal de-huller for Millets	0.72	50%	0.576	40%
(i) Double headed centrifugal de-huller	0.45	50%	0.36	40%
(j) Millet flaking machine	0.60	50%	0.48	40%
(k) Millet popping machine	0.60	50%	0.48	40%
(l) Pedal operated cleaner cum grader for millet	0.15	50%	0.12	40%
(m) Mini Oil Mill/Expeller with filter press(for all types of Horticulture/Food grain/oilseed crop)	3.00	50%	2.40	40%
(n) Mini Oil Mill without filer press (for all types of Horticulture/Food grain/oilseed crop)	1.80	50%	1.44	40%
(o) Pomegranate Aril Extractor	1.80	50%	1.44	40%

(p) Custard apple pulper	1.80	50%	1.44	40%
(q) Dehydration unit/Pricking Machine/Humidifier (for all types of Horticulture/Food grain/oilseed crop)	1.80	50%	1.44	40%
(r) Packing Machines(for all types of Horticulture/Food grain/oilseed crop	3.00	50%	2.40	40%
(s) All types of Power driven De-husker /sheller /Threshers /Harvesters / De-spiking/ Deconing Machine/Peeler/ Spliter /Stripper /Shredder (for all type of Horticulture / food grain/oil seeds Crops)	0.75	50%	0.60	40%
(t) All types of Boiler/Steamer/Drier (for all types of Horticulture/Food grain/oilseed crop)	1.00	50%	0.80	40%
(u) All types of Solar Driers (for all type of Horticulture / food grain/oil seeds Crops) with floor area of about 400 to 1000 sq. feet.	3.50	50%	2.80	40%
(v) All types of Washing Machines(for all types of Horticulture/Food grain/oilseed crop)	0.60	50%	0.48	40%
(w) All types of Grinder/Pulveriser/Polisher (for all types of Horticulture/Food grain/oilseed crop)	0.60	50%	0.48	40%
(x) All types of Cleaner cum Grader/ Gradient separator /specific gravity separator (for all types of horticulture/Food grain/oilseed crop)				
(i) Capacity less than 1 TPH	1.50	50%	1.20	40%
(ii) capacity from 1 THP and less than 2 TPH	2.40	50%	1.92	40%
(iii) Capacity 2 TPH and above	3.00	50%	2.40	40%
(y) **Indented Cylinder**				
(i) Capacity – less than 1 TPH	0.72	50%	0.576	40%
(ii) Capacity –1 TPH and less than 2 TPH	1.02	50%	0.82	40%
(iii) Capacity –2 TPH and above	1.74	50%	1.392	40%
(z) **Air Screen Cleaner**	0.45	50%	0.36	40%
(aa) Flexible Elevator cum Conveyor				
(i) Capacity – less than 1 TPH	1.32	50%	1.056	40%
(ii) Capacity –1 TPH and less than 2 TPH	1.62	50%	1.296	40%
(iii) Capacity –2 TPH and above	2.76	50%	2.208	40%
(bb) Grain Pick up and weighing cum packaging with Silo				

(i) Capacity – less than 1 TPH	8.00	50%	6.40	40%
(ii) Capacity –1 TPH and less than 2 TPH	10.00	50%	8.00	40%
(iii) Capacity –2 TPH and above	14.00	50%	11.20	40%
(cc) Broom Stick Extractor	0.072	50%	0.058	40%
(dd) Grain Collector	0.63	50%	0.504	40%
(ee) Flattened rice/Puffed rice making machine	1.20	50%	0.96	40%
(ff) Papad/Chips making machine	0.90	50%	0.72	40%
(gg) Tofu/Vegan Paneer Plant	1.08	50%	0.864	40%
(hh) Ripening Chamber for Horticultural Produce (1 ton capacity)	1.20	50%	0.96	40%
(ii) Sugarcane rind removing machine foe juice making	0.39	50%	0.312	40%
(jj) Pedal operated cleaner cum grader for millet	0.15	50%	0.12	40%
(kk) Modular Onion Storage Structure (1-5 ton capacity)	0.15	50%	0.12	40%
(ll) Moringa Leaf Stripper	0.30	50%	0.24	40%
(mm) Rope Twisting and winding equipment for plant fibre extract	0.90	50%	0.72	40%
(nn) Multifeed Banana fibre extraction equipment	1.35	50%	1.08	40%
(oo) Makhana Popping and Decortication Machine	3.30	50%	2.64	40%
(pp) Automatic Wadi Making Machine	3.30	50%	2.64	40%
(qq) Mechanized system for primary processes and roasting of raw makhana/Rotating open pan roasting machine-LPG heated	1.02	50%	0.82	40%
(rr) Solar operated phase change material based fruits-vegetables vending pushcart	1.20	50%	0.96	40%
(ss) Paddy mobile dryer	9.00	50%	7.20	40%
(tt) Tractor PTO/Electric Motor operated Onion De-topper cum grader	4.20	50%	3.36	40%
(uu) Tractor PTO/Electric Motor operated garlic bulb breaker cum grader	4.20	50%	3.36	40%
(vv) Tractor PTO/Electric Motor operated Cleaner cum grader with conveyor (for all millets, cereals and pulses)	4.20	50%	3.36	40%
(ww) Cattle Dung Collector	0.16	50%	0.128	40%
(xx) Cow dung Briquetting Machine	0.42	50%	0.336	40%
(yy) Cow dung dewatering machine	0.90	50%	0.72	40%

Plant Protection Equipments				
(i) Manual sprayer: Knapsack/foot/Battery operated sprayer.	0.01	50%	0.008	40%
(ii) Solar powered Knapsack Sprayer	0.02	50%	0.016	40%
(iii) Bullock Cart mounted solar powered high clearance sprayer	0.40	50%	0.32	40%
(iv) Bullock Cart mounted air mist canopy sprayer	0.48	50%	0.384	40%
(v) Powered Knapsack sprayer/Power Operated sprayer (capacity 8 - 12 litres)- ≤ 0.75 hp engine)	0.03	50%	0.024	40%
(vi) Powered Knapsack sprayer/Power Operated sprayer (capacity above 12- 16 litres): (> 0.75 to 1.00 hp engine)	0.04	50%	0.032	40%
(vii) Powered Knapsack sprayer/Power Operated sprayer (capacity above 16 litres (> 1.0 hp engine)	0.10	50%	0.08	40%
(viii) Powered Knapsack Mist blower sprayer cum Duster (> 1.0 hp engine)	0.10	50%	0.08	40%
(ix) Tractor Operated Sprayer (air carrier/assisted)	1.38	50%	1.104	40%
(x) Battery operated Sprayer (Boom Type)	0.05	50%	0.04	40%
(xi) Battery Operated Boom Sprayer (walk behind type)	0.05	50%	0.04	40%
(xii) Tractor Operated Sprayer (boom type)	0.41	50%	0.328	40%
(xiii) Eco Friendly Light Trap	0.02	50%	0.016	40%
(xiv) Solar insect trap	0.04	50%	0.032	40%
(xv) Tractor Operated Electrostatic Sprayer	2.50	50%	2.00	40%
(xvi) Bird Scarer	0.75	50%	0.60	40%
(xvii) Self-propelled high ground clearance sprayers (Boom type)	4.00	50%	3.20	40%
(xviii) Tractor mounted precision spraying machines	3.50	50%	2.80	40%
(xix) Vehicle Mounted Sprayer for locust Control	2.50	50%	2.00	40%
(xx) Soil Plant Analysis Development (SPAD) Meter	0.08	50%	0.064	40%
(xxi) Pseudostem injector for Banana	0.08	50%	0.064	40%
(xxii) Tractor operated EPN/Bio agent applicator for sugarcane	0.23	50%	0.184	40%

(xxiii) Power Operated Sugarcane sett Treatment Device (30 – 120 Litres capacity)	0.30	50%	0.24	40%
Specialized Agricultural Machinery				
(a) Solar operated/electric operated animal deterrent bioacoustics equipment (with solar panel)	0.35	50%	0.28	40%
(b) Solar operated/electric operated Animal deterrent bioacoustics equipment (without solar panel)	0.25	50%	0.20	40%
(c) Solar operated/electric operated Hydroponic machine for rising nursery of various crops (below 500 kg capacity)	3.00	50%	2.40	40%
(d) Solar operated/electric operated Hydroponic machine for rising nursery of various crops (500 kg and above capacity)	6.00	50%	4.80	40%
(e) Battery Operated Rubber Tapping Machine	0.10	50%	0.08	40%
Irrigation Equipments				
(i) Petrol/Diesel/Electric/Tractor PTO operated/ portable irrigation pumps up to 15 HP (with ISI/BEE labeled with Minimum 4 Star rated)	0.10	50%	0.08	40%
(ii) Remote motor operators for Electric Pump-sets	0.07	50%	0.05	40%
(iii) Digital Soil Moisture Indicator (DSMS)	0.036	50%	0.029	40%
(iv) Digital Soil Moisture Indicator (DSMS) (GSM Module)	0.045	50%	0.036	40%

Note:

- The States will have the flexibility to add any new machine under the appropriate categories of machines
- The States may make the price discovery of the machines through the process of empanelment as per relevant rules of GFR. The States shall ensure that the prices of the machines are reasonable and comparable with the open market prices.
- The cost subsidy applicable will be limited to the percentage of the cost of the machine fixed by the States through price discovery or max. permissible subsidy per machine as indicated above, whichever is lower.
- The maximum permissible subsidy as indicated above will be inclusive of GST.

Annexure-II

Procedure for Credit Linked Capital Subsidy

The following is the gist of procedure to be followed:

1. **Advance Subsidy:** The 50% eligible subsidy amount for the projects will be released as advance by the Implementing Agencies to the participating Financial Institutions (Banks) on submission of project scrutiny note cum claim form as per requirement and the norms of the interventions. The same would be kept in a Subsidy Reserve Fund Account of the concerned borrowers, to be adjusted finally against loan amount of the bank towards the end of the repayment period and life of the project as per the time schedule.

2. **Final Installment of Subsidy**: the remaining 50% would be disbursed to the participating Banks by the Implementing Agencies after conduct of an inspection and physical verification of the machines and equipments by the State Level Project Sanctioning Committee and officials from the financing banks.

3. **Adjustment of Subsidy to Borrower's Account:** The subsidy released to the bank for individual project will be kept in a separate borrower-wise account. The adjustment of subsidy will be back ended. Accordingly, the full project cost including the subsidy amount, but excluding the margin money contribution from the beneficiary, would be disbursed as a loan by the Banks. The repayment schedule will be drawn on the loan amount in such a way that the total subsidy amount is adjusted after the full bank loan component with interest is liquidated.

4. **Utilization Certificate:** After release of final installment of subsidy, a Utilization Certificate is required to be submitted by the financing Bank certifying that the full amount of subsidy received in respect of the project has been fully utilized (by way of crediting to the "Subsidy Reserve Fund Account-Borrower –wise") and adjusted in the books of Account under the sanctioned terms and conditions of the project within overall guidelines of the scheme.

5. **No Interest is chargeable on Subsidy Portion**: For the purpose of charging interest on the loan component, the subsidy amount would be excluded. The balance lying to the credit of the subsidy reserve fund account will not form part of demand and time liabilities for the purpose of SLR/CRR

6. **Institutional Lending:**
(a) **Eligible Financial Institutions:** The eligible financing institutions under the scheme may be (i) Commercial Banks, Regional Rural Banks (RRBs), State Cooperative Banks (SCBs), State Cooperative Agricultural and Rural Development Banks (SCARDBs), Scheduled Primary Urban Cooperative Banks (PUCBs), Agricultural Development Finance Companies (ADFCs) and such

other institutions (ii) Cooperatives where they seek loan from National Cooperatives Development Corporation (NCDC).

(b) Term Loan

For the projects, the amount as eligible as capital subsidy of the project cost can be raised as term loan from the financing banks. The repayment schedule will be drawn on the total loan amount (including subsidy) in such a way that the subsidy amount is adjusted after liquidation of the net bank loan (excluding subsidy). The financial institution may provide working capital separately for undertaking the business by the entrepreneurs.

(c) **Rate of interest and Scale of Financing to the ultimate borrower** : As decided by the financing bank, as per their respective Board approved policy.

(d) **Security:** The security will be as per norms prescribed by RBI from time to time.

(e) **Repayment Period:** Repayment period will depend upon the cash flow and may be generally up to 5 years with a grace of one year.

7. Procedure to be followed for sanctioning of project and release of subsidy

(a) Interested beneficiaries will submit the project proposal for term loan and subsidy to Bank on application form as prescribed by the concerned bank along with project report and other documents for appraisal and sanction of loan.

(b) Bank after appraisal and scrutiny of loan application will furnish a brief project profile-cum-claim form for advance subsidy in the prescribed format as may be devised by the project sanctioning committee at the State level. The loan shall be disbursed by the Bank only after the project has been cleared and approved by the State level project sanctioning committee, which shall also have a representative of the concerned Bank.

(c) The Implementing Agencies on the recommendation of State level project sanctioning committee shall release 50% of the eligible amount of subsidy as advance subsidy to the participating bank for keeping the same in the subsidy fund account (borrower-wise)

(d) The participating bank shall provide eligible amount of subsidy as term loan to the beneficiary. The banks at their discretion may extend full project cost as term loan to the beneficiary.

(e) The beneficiary will inform the Bank that the required machines and equipments have been acquired by the beneficiary and the State level project sanctioning committee involving the bank official shall conduct

the physical verification of the machines and equipments. After inspection the Bank will submit the claim form to the Implementing Agencies for final subsidy. The claim form shall necessarily be enclosed with inspection report of the committee. The Implementing Agency shall release the final subsidy to banks which will be adjusted against the subsidy amount provided to the banks in advance.

(f) Monitoring of each project will be done by Banks branches and district level officers of the Implementing Agencies with periodic reporting to the Implementing Agency.

ANNEXURE-III (A)

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

Sl. No.	Name of the Course		Duration	Charges per person per course
I.	**USER LEVEL COURSES:**			
	U1	Appropriate Mechanization Technology for Energy Management in Agriculture	4 weeks	**FREE**
	U2	Selection, Operation, Safety and Maintenance of Improved Agricultural Machinery	6 weeks	
	U3	Operation, maintenance and Management of power tiller	2 weeks	
	U4	Training Program on Agro Processing & value addition Equipments	2 weeks	
	U5	Gender friendly Equipments for Women farmers	3 days.	
	U6	Utilization of Non-conventional Energy Sources in Agriculture.	1 week	
	U7	Water Management Through sprinkler and drip Irrigation & Water saving devices.	1 week	
	U8	Selection, Operation, and Maintenance of Plant Protection Equipments	1 week	
	U9	Selection, Operation, and Maintenance of improved Harvesting & Threshing machines	2 weeks	
	U10	Selection, Operation, and Maintenance of Hand Pump	1 week	
	U 11	Selection, operation and maintenance of agril. Machinery for dry land agriculture.	2 week	
	U12	**Crop Specific Machines:**		
	a)	Package of agricultural machinery for Paddy cultivation.	1 week each	**FREE**
	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 seeds & pulses		
	g)	Package of Agricultural machinery for forage/fodder production and fodder management.		
	U13	IT application in farm mechanization		
II.	**TECHNICIAN LEVEL COURSES**			
	A. Courses on Repair and Overhauling			
	T1	Repair and overhauling of Stationery engines and tractors	6 weeks	Rs. 300/-
	T2	Repair & overhauling of power tillers	2 weeks	Rs. 100/-
	T3	Establishment and management of	4 weeks	Rs. 200/-

		agricultural machinery repair and maintenance workshop		
	T4	Study & Repair of Hydraulic system in Agriculture Machines.	4 weeks	Rs. 200/-
	T5	Repair and maintenance of Auto Electrical equipments and Battery re-conditioning	3 weeks	Rs. 150/-
	T6	Repair, maintenance & rewinding of Electrical motors and submersible pumps	3 weeks	Rs.150/-
	T7	Operation & maintenance of Land shaping and Development machinery	4 weeks	Rs. 500/-
	T8	Repair, maintenance & overhauling of diesel pumping sets	2 weeks	Rs. 100/-
	T9	Maintenance, repair and installation of Combine Harvesters and Straw Reaper.	3 weeks	Rs. 150/-
	B. Earning While Learning Courses:			
	TEL-1	Repair and overhauling of Stationery engines, tractors and diesel pumping sets.	6 months	Rs. 200/-
	TEL-2	Repair & overhauling of power tillers	6 months	Rs. 200/-
	TEL-3	Establishment and management of agricultural machinery repair and maintenance workshop	6 months	Rs. 200/-
	TEL-4	Repair and maintenance of Auto Electrical equipments, Battery re-conditioning, Rewinding of electrical motors and submersible pumps.	6 months	Rs. 200/-
	TEL-5	Maintenance, repair and installation of Combine Harvesters and Straw Reaper.	6 months	Rs. 200/-
III.	**MANAGEMENT LEVEL COURSES: (for trainees sponsored by the commercial organizations / Banks/ Manufacturers)**			
	M1	Testing and Evaluation of Farm Machinery	1 week	Rs. 2500/-
	M2	Agriculture Machinery Management	1 week	Rs. 2500/-
	M3	Export Management of Agricultural Machinery.	1 week	Rs. 2500/-
	M4	Instrumentation for Farm Machinery Testing and Evaluation	1week	Rs. 2500/-
	M5	Entrepreneurship development to establish custom hiring agro-service centre	8 weeks	Rs. 20000/ (Except for farmers)
	M6	Farm machinery management for dealers / traders/ manufacturers, etc.	1week	Rs. 2500/
IV	**ACADEMIC LEVEL TRAINING PROGRAM**			
	A1	Trg. program on Farm Power & Machinery for Degree/Diploma Engg.Students. (4 weeks)	4 weeks	Rs. 2000/- per course
	A2	Practical Training programme on Farm Power and Machinery for ITI & 10 +2 vocational students	4 weeks	

V	NB	**Need based Training Programme on Mechanization**	As per requirement of the Sponsoring agency.	Rs. 1000/- per month (Except Farmers)
VI	FN	**Training programme for Foreign National as per requirements under Bilateral programme**	10 to 18 weeks (As per requirement of the Sponsoring agency)	As per Govt. policy
VII	**TECHNOLOGY TRANSFER CAMPS – OFF CAMPUS**			
	TT1	Energy conservation & safety in farm machinery	1 – 2 days	Free
	TT2	Familiarization and demonstration of improved/modern agril. Machines.	1 – 2 days	Free

ANNEXURE-III(B)

Skill Development Programmes aligned to NSQF and notified by ASCI in the area of Farm Machinery for 12 Job Roles

Qualification Pack Title	QP ID.	Proposed NSQF level	Entry requirements	Total Hours
Tractor operator	AGR/Q1101	4	Class X	200
Harvesting Machine Operator	AGR/Q1102	4	Class X	200
Agriculture Machinery Operator	AGR/Q1103	4	Class 8 preferably	200
Agriculture Machinery Repair and Maintenance Service Provider	AGR/Q1111	5	Class 12 preferably	200
Custom Hiring Service Provider	AGR/Q1112	5	Class 12 preferably	200
Irrigation Service Technician	AGR/Q1104	4	Class 8 preferably	200
Operator-Reaper Thresher and Crop Residue Machinery	AGR/Q1105	4	Class 8 preferably	220
Service and Maintenance Technician-Farm Machinery	AGR/Q1106	4	Class 10 preferably	205
Agriculture Machinery Demonstrator	AGR/Q1107	5	Class 10 preferably	200
Tractor Mechanic	AGR/Q1108	4	Class 10 preferably	220
Farm Workshop Foreman/Supervisor	AGR/Q1109	5	ITI or Class 10 preferably	200
Farm Workshop/Service Manager	AGR/Q1110	6	B. Tech/ B.E / Graduate in Business Administration	200

Annexure-IV

List of institutions approved by the Department for Testing and Certifying Agricultural Machineries and Equipments

S. No.	Name of the State	Name of the Institute
1	**BIHAR**	Faculty of Agricultural Engineering, Rajendra Agriculture University, **PUSA (BIHAR)**
2	**CHHATTISGARH**	State level Agriculture Implement Testing Centre, Directorate (Agricultural Engineering), Agriculture Department, Govt. of Chhattisgarh, TeliBandha, Gorav Path, **RAIPUR (CHHATTISGARH)**
3	**DELHI**	Division of Agricultural Engineering, Indian Agricultural Research Institute, **NEW DELHI-12.**
4	**GUJARAT**	College of Agricultural Engineering & Technology, Junagarh Agricultural University, **JUNAGARH (GUJARAT)#**
5	**HARYANA**	College of Agricultural Engineering & Technology, Chaudhary Charan Singh Agriculture University, **HISAR (Haryana)#**
6		CCSHAU- Regional Research Station, CCSHAU, Uchani, Karnal (Haryana)
7	**JAMMU & KASHMIR**	Sher-e-Kashmir University of Agri. Science & Technology, **SRINAGAR REGION (J. & K.)**
8		Sher-e-Kashmir University of Agri. Science & Technology, **JAMMU REGION (J. & K.)**
9	**JHARKHAND**	Birsa Agriculture University, Kanke, **RANCHI (JHARKHAND)**
10		Jharkhand Agriculture Machinery Testing and Training Centre (JAM-TTC), Govt. of Jharkhand, **RANCHI (JHARKHAND)**
11	**KARNATAKA**	University of Agricultural Sciences, Gandhi Krishi Vignyan Kendra, **BANGALORE (KARNATAKA.)**
12		College of Agricultural Engineering, University of Agricultural Sciences, **RAICHUR, KARNATAKA - 584104**
13		College of Agriculture Vijaypur, University of Agricultural Sciences Belgaum Rd, Krishi Nagar, Dharwad, Karnataka 580005
14		Farm Machinery Testing Centre, College of Food Technology, University of Horticultural Sciences, Udyanagiri, Navanga**, Bagalkot (Karnataka) - 587104**
15	**KERALA**	Farm Machinery Testing Centre, Kerala Agricultural University Kelappaji College of Agricultural Engineering & Technology Tavanur, Malappuram (Dist), Kerala- 679573
16	**MADHYA PRADESH**	Central Institute of Agricultural Engineering, Berasia Road, **BHOPAL (MP) #**
17		College of Agricultural engineering, Jawaharlal Nehru Krishi Vishvidyalaya, **Jabalpur (Madhya Pradesh)**
18	**MAHARSHTRA**	Dr. A.S. College of Agricultural Engineering Mahatma Phule Krishi Vidyapeeth, Rahuri, Distt. Ahmednagar, Maharashtra **(MPKV)**
19		Farm Machinery Testing, Training and Production Centre, Department of Farm Power and Machinery, **Dr. PDKV, Akola #**
20		College of Agricultural Engineering and Technology, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, **DAPOLI (MAHARSHTRA)**
21		College of Agricultural Engineering, V. N. Marathwada Krishi Vidyapeeth, **PARBHANI (MAHARASHTRA)**-431402

Annexure-IV (Contd.)

S. No.	Name of the State	Name of the Institute
22	**ODISHA**	College of Agricultural Engineering and Technology, Orissa University of Agriculture and Technology, **BHUBANESWAR**
23		State Level Farm Machinery Training & Testing Centre, Agriculture Department, Government of Odisha, **Bhubaneswar, Odisha.##**
24	**PUNJAB**	College of Agricultural Engineering and Technology, Punjab Agriculture University, **LUDHIANA (PUNJAB)**
25		Central Institute of Post-Harvest Engineering and Technology (CIPHET), Ludhiana , 141004##
26	**RAJASTHAN**	Farm Implements and Machinery Testing & Training Centre, Central Workshop, Swami Keshwanand Rajasthan Agricultural University, **Bikaner (Rajasthan).**
27		College of Technology and Agricultural Engineering, Maharana Pratap, University of Agriculture and Technology, **UDAIPUR (RAJASTHAN)**
28	**SIKKIM**	College of Agricultural Engineering and Post-Harvest Technology, **RANIPOOL, GANGTOK (SIKKIM)**
29	**TAMIL NADU**	Agricultural Engineering Collage & Research Institute (AEC&RI) , Tamil Nadu Agricultural University, **Kumulur, Trichy (TAMIL NADU)**
30		Farm Machinery Testing Center, ICAR-Central Institute of Agricultural Engineering- Regional Center, near AMRC, **Coimbatore -641003##**
31	**TELANGANA**	Prof. Jayashanker Telengana State Agriculture University, Hydrabad
32	**UTTAR PRADESH**	State Level Farm Machinery Training and Testing Institute, Govt. of U.P., Rehmankhera, **LUCKNOW (U.P.)**
33		Sam Higginbottom Institute of Agriculture, Technology & Science (AAI), Deemed University, **ALLAHABAD (U.P.)**
34	**UTTARAKHAND**	College of Technology, Gobind Ballabh Pant University of Agriculture and Technology, **PANTNAGAR (UTTARANCHAL)**
35	**WEST BENGAL**	Department of Agriculture & Food Engineering, Indian Institute of Technology**, KHARAGPUR (WEST BENGAL.)**
36		State Farm Machinery Training-cum-Testing Institute, Faculty of Agricultural Engineering, Bidhan Chandra Krishi Viswavidyalaya (BCKVV), **Mohanpur, DISTT. NADIA (WEST BENGAL)**
37		CSIR-Central Mechanical Engineering Research Institute (CMERI), Durgapur **(West Bengal)**

Note: # These designated testing Centres are also authorized to test Plant Protection Equipments

These testing Centres are also authorized to test post-harvest technology equipment and machines