

F.No.8-1/2004-My.(I&P)
GOVERNMENT OF INDIA
Ministry of Agriculture
Department of Agriculture & Cooperation
(M&T Division)

Krishi Bhawan, New Delhi
Dated the 14th September, 2010.

To


Principal Secretary / Secretary (Agriculture)
All States & UTs.

Subject: Ensuring supply of quality agricultural machinery and equipment under Governmental programmes.

Sir,

Reference is invited to this Department's letter No.12-10/2005-M&T (I&P) dated 8th April, 2009 on the above subject. Based on the feedback from the State Governments and after taking into consideration the recommendations of the Technical Committee constituted to examine this matter, the department has brought out revised guidelines for ensuring supply of quality agricultural machinery and equipments under governmental programmes and schemes.

A copy of revised guidelines is enclosed herewith for information and necessary action.


14/09/10


(S.K.G. Rahate)

Encl: As above.

Joint Secretary to the Government of India.

Copy for information & necessary action to:-

1. Vice Chancellor / Head of the Deptt. / Director / Deans of all twenty one institutions as per Annexure – II.
2. Director of Agriculture / Director (Agriculture Engineering) / Chief Engineers of all States & UTs.
3. Director, all Farm Machinery Training and Testing Institutes.


14/09/10

(S.K.G. Rahate)

Joint Secretary to the Government of India.

फा.सं.-8-1/2004-मशीनरी (आई एण्ड पी)

भारत सरकार
कृषि मंत्रालय
कृषि एवं सहकारिता विभाग

कृषि भवन, नई दिल्ली
दिनांक 14 सितम्बर, 2010

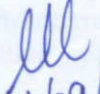
सेवा में,
प्रधान सचिव/सचिव (कृषि)
सभी राज्य एवं के.शा.प्रदेश

विषय: राजकीय कार्यक्रमों के तहत गुणवत्ताप्रद कृषि मशीनरी एवं उपकरणों की आपूर्ति की सुनिश्चितता ।

महोदय,

उपरोक्त विषय पर इस विभाग के पत्र सं.-12-10/2005-एम एण्ड टी (आई एण्ड पी) दिनांक 8 अप्रैल, 2009 का संदर्भ ग्रहण करें । राज्य सरकारों से प्राप्त फीडबैक के आधार पर और इस मामले की जांच के लिए गठित तकनीकी समिति की सिफारिशों को ध्यान में रखते हुए, विभाग ने राजकीय कार्यक्रमों एवं स्कीमों के तहत गुणवत्ताप्रद कृषि मशीनरी एवं उपकरणों की आपूर्ति की सुनिश्चितता के लिए संशोधित दिशानिर्देश तैयार किये हैं ।

संशोधित दिशानिर्देशों की एक प्रति सूचनार्थ एवं आवश्यक कार्यवाही हेतु संलग्न कर दी गई है ।


14/09/10

(एस.के.जी रहाटे)

संयुक्त सचिव, भारत सरकार

संलग्नक: उपर्युक्त

सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रति प्रेषित:

1. कुलपति/विभागाध्यक्ष/निदेशक/अनुबंध II के अनुसार सभी इक्कीस संस्थानों के डीन को
2. कृषि निदेशक/निदेशक (कृषि अभियांत्रिकी)/सभी राज्यों/के.शा.प्रदेशों के मुख्य अभियन्ता
3. निदेशक, सभी कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान ।

Guidelines for Ensuring Supply of Quality Agricultural Machinery and Equipment under Governmental Programmes and Schemes
(Revised: September 2010)

- (i) The State Governments shall ensure that the agricultural machinery and equipment including equipment with new technology as per **Schedule – A of Annexure-I** are tested and certified by the Farm Machinery Training & Testing Institutes (FMT&TIs) **only** before they are supplied under any government assisted programmes. Tractors shall be tested by the CRFMT&TI, Budni (MP), Combine harvesters by the NRFMT&TI, Hissar (Haryana) and Power tillers by the SRFMT&TI, Garladinne (AP). Remaining agricultural machinery and equipment shall be tested by the NRFMT&TI, SRFMT&TI and NERFMT&TI, Biswanath Chariali (Assam).
- (ii) The State Governments shall also ensure that agricultural machinery and equipment including equipments with new technology as per **Schedule – B of Annexure – I** are tested and certified either by the **FMT&TIs** or by DAC approved twenty one (21) Agricultural Institutions as per the list enclosed as **Annexure – II** before they are supplied under any government assisted programmes.
- (iii) The State Governments should make their own arrangement for ensuring the quality of the agricultural machinery and equipment outside the list as per Annexure-I before they are supplied under Government assisted programmes. The State Governments may get the equipment tested and certified, if considered necessary, through institutions such as any Department of State Agricultural University (SAU), Engineering College, ICAR institutions, Krishi Vigyan Kendra (KVK) or any other research institute designated by the State Governments. The test reports released by these designated institutions may be relied upon by all the State Governments. The suggestive list of required infrastructure for testing of agricultural machinery and equipment is enclosed at **Annexure -III** for guidance.
- (iv) The institutions designated as per the list enclosed as Annexure – II or the Institutions designated by the State Governments shall carry out the testing as per relevant Indian Standards. If, the Indian Standard is not available, the testing may be carried out as per any other relevant International standard. In case of non-availability of Indian/International Standard, the Institutions may devise appropriate procedure in consultation with the manufacturer. They may also seek guidance from FMT&TIs.
- (v) Any other newly developed or imported machinery which is not covered under the list enclosed as Annexure – I but needs performance evaluation before introduction into the Indian agriculture sector shall be tested by either FMT&TIs or approved Institutions listed as per Annexure – II or by Institutions identified by the State Govts. before they are supplied under government assisted programmes.
- (vi) The State Governments should have a system of random pre and/or post dispatch checks of agricultural equipment being promoted through Governmental Programmes.
- (vii) The equipment such as Plant Protection equipment, irrigation equipment and diesel engines etc. are currently covered under BIS certification. Therefore, such equipments having ISI mark may be considered for promotion under Governmental programmes and schemes.
- (viii) The Power operated thresher, power operated sugarcane crusher and power operated chaff cutter are covered under the purview of Dangerous Machines (Regulation) Act 1983. It may therefore, be ensured that these equipment conform to necessary requirements of Dangerous Machines (Regulation) Rules 2007 published vide Gazette Notification No. G.S.R. 506 (E) dated 24th July 2007 or as modified from time to time.

Annexure-I

SCHEDULE - A

LIST OF AGRICULTURAL MACHINERY AND EQUIPMENTS TO BE TESTED ONLY AT FARM MACHINERY TRAINING AND TESTING INSTITUTES (FMT&TIs) OF THE DEPARTMENT OF AGRICULTURE AND COOPERATION, MINISTRY OF AGRICULTURE, GOVERNMENT OF INDIA

S.N.	Name of Equipment/Machine
A	Land Development, tillage and Seedbed preparation Equipments
1	Tractor
2	Power Tiller
3	Cultipacker (Tractor Mounted)
4	Pulverizing Roller (Tractor drawn)
5	Laser land leveler
B	Sowing & Planting Equipment
6	Self- propelled Paddy Transplanter/Mat type power operated paddy transplanter
7	Multi-crop Planter (Tractor Driven)
8	Vegetable Transplanter (Tractor drawn)
9	Tractor Drawn Pneumatic Planter
10	Roto Till drill/Strip till drill/Happy combo seeder
C	Intercultivation Equipments
11	Power Weeder more than 3.5KW
12	Light Weight Power Tiller
D	Plant Protection Equipment
13	Tractor mounted sprayer
14	Self propelled high clearance sprayer
15	Aeroblast sprayer/Orchard Sprayer
E	Harvesting & Threshing Equipments
16	Combine Harvester (Self Propelled/Tractor Powered)
17	Self propelled vertical conveyor reaper/binder
18	Tractor/power tiller drawn vertical conveyor reaper
19	Self propelled forage harvester
20	Hadamba/syndicator thresher
F	Equipments for Residue Management
21	Tractor Driven Straw Shredder
22	Tractor Driven Straw Baler
23	Feed- Block making Machine
24	Tractor Driven Forage Harvester
G	Post Harvest & Agro Processing Equipments
25	Rubber roll rice sheller

Annexure-I
(CONTINUED)

SCHEDULE - B

**LIST OF AGRICULTURAL MACHINERY AND EQUIPMENTS TO BE TESTED
EITHER AT FMTTIs OR APPROVED AGRICULTURAL INSTITUTIONS
LISTED AS PER ANNEXURE -II**

S.N.	Name of Equipment/Machine
A	Land Development, tillage and Seedbed preparation Equipments
1	Hydraulically Reversible MB Plough
2	Combined Tillage Tool (Tractor drawn)/Integrated tool bar
3	Rotavator
4	Cultivator
5	Disc / M.B. Plough
6	All types of Harrows
B	Sowing & Planting Equipment
7	Tractor Driven Potato Planter
8	Tractor Driven Ridger Seeder
9	Tractor Driven Groundnut Planter
10	Raised-bed Planter
11	Tractor Drawn Sugarcane Cutter Planter
C	Intercultivation Equipments
12	Power Weeder up to 3.5KW
D	Plant Protection Equipment
13	Self propelled light weight boom sprayer
E	Harvesting & Threshing Equipments
14	Tractor mounted potato digger elevator
15	Tractor mounted groundnut digger shaker
16	Power Sunflower thresher
17	Powered maize sheller
18	Multicrop thresher
19	Axial flow paddy thresher
20	Powered Groundnut thresher/decorticator
21	Power Maize dehusker cum sheller
F	Equipments for Residue Management
22	Flail type straw chopper cum spreader
G	Post Harvest & Agro Processing Equipments
23	Semi-automatic mini dal mill

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**

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

Annexure-V (Contd.)

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

No. 13-12/2012-M&T(I&P)
Department of Agriculture & Cooperation
(Mechanization & Technology Division)

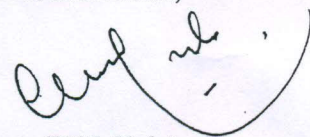
Room No. 298, Krishi Bhawan, New Delhi.

Dated 27th February, 2015

Subject: Ensuring supply of quality agricultural machinery and equipment under Government Programmes - Authorisation of testing of Plant Protection Equipments.

I am directed to convey the approval of the Competent Authority for authorisation of following Institutes to test all types of Plant Protection Equipments operated by manually, battery and power except boom type power sprayers w.e.f. 1st April, 2015 till further orders:

- (i) College of Agricultural Engineering & Technology, Junagarh Agricultural University, Junagarh, Gujarat.
- (ii) Central Institute of Agricultural Engineering (ICAR), Berasia Road, Bhopal, M.P.



(V.N. Kale)

Additional Commissioner (M&T)

Telefax: (011) 23387200

Email: kalevn2000@yahoo.co.in

1. All Principal Secretary (Agriculture) /Agriculture Production Commissioner/ Secretary(Agriculture) /Director of Agriculture /Director of Agricultural Engineering
2. Directors (All FMTTIs)
3. Agricultural Machinery Manufacturer's Association, Plot No.B-37, Survey No.15,B.U. Bhandari Greens Crop, Housing Society, Dhanori, Pune -411015.

Copy to:

1. Director, Central Institute of Agricultural Engineering (ICAR), Berasia Road, Bhopal, M.P
2. Dean, College of Agricultural Engineering & Technology, Junagarh Agricultural University, Junagarh, Gujarat.

For information and necessary action. The observations/ comments conveyed vide this office letter no. No. 13-12/2012-M&T(I&P) dated 22.1.2015 should be complied and scrupulously followed which can be inspected by this Division at any time without any prior notice to you.

Copy to :- File No. 8-1/2014 - M&T (I&P)

By Speed Post

No.8-1/2004--MY(I&P)
Government of India
Ministry of Agriculture
Department of Agriculture & Cooperation

Krishi Bhawan, New Delhi-110 001.
Dated the March, 2010.

To,
(As per list)

ADDENDUM

Subject: **Ensuring supply of quality agricultural machinery and equipment under Government programmes-regarding**

Sir,

I am directed to refer to this Department's letters of even number dated 14.9.2010, 10.6.2011, 3.10.2011 and 14.11.2011 on the subject mentioned above.

2. In this regard, it has now been decided to append the following in the list of institutions approved by the Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India for Testing and Certifying Agricultural Machineries and Equipments as per Annexure - II of DAC's letter of even number dated 14.09.2010.

- A. 'State Level Farm Machinery Training & Testing Centre, Agriculture Department, Government of Odisha, Bhubaneswar'**
- B. 'Farm Machinery Testing, Training and Production Centre' under Department of Farm Power and Machinery, Dr. PDKV, Akola, Maharashtra:**

The revised Annexure - II is enclosed

Encl. as above.

Yours faithfully,

(Omkar Singh)
Deputy Commissioner (M&T)
Telefax No.011/23382922
E-mail : singh.omkar14@yahoo.co.in

Ministry of Agriculture
Department of Agriculture and Cooperation
Mechanisation and Technology Division

LIST OF AGRICULTURAL MACHINERY AND EQUIPMENTS TO BE TESTED EITHER AT FMTTIs OR
APPROVED AGRICULTURAL INSTITUTIONS
LISTED AS PER ANNEXURE - II

S.No.	Name of Equipment / Machine
A	Land Development, tillage and Seedbed preparation Equipments
1.	Hydraulically Reversible MB Plough
2.	Combined Tillage Tool (Tractor drawn)/Integrated tool bar
3.	Rotavator
4.	Cultivator
5.	Disc /M.B. Plough
6.	All types of Harrows
B	Sowing & Planting Equipment
7.	Tractor Driven Potato Planter
8.	Tractor Driven Ridger Seeder
9.	Tractor Driven Groundnet Planter
10.	Raised-bed Planter
11.	Tractor Drawn Sugarcane Cutter Planter
C.	Intercultivation Equipments
12.	Power Weeder and Self Propelled Machinery upto 3.5 kW
D.	Plant Protection Equipment
13.	Self propelled light weight boom sprayer
E	Harvesting & Threshing Equipments
14.	Tractor mounted potato digger elevator
15.	Tractor mounted groundnut digger shaker
16.	Powered Sunflower thresher
17.	Powered maize sheller
18.	Multicrop thresher
19.	Axial flow paddy thresher
20.	Powered Groundnut thresher/decorticator
21.	Powered Maize Dehusker-cum-sheller
F.	Equipments for Residue Management
22.	Flail type straw chopper cum spreader
G	Post Harvest & Agro Processing Equipments
23.	Semi-automatic mini dal mill
24.	Tractor Front Mounted Crop Reaper

ANNEXURE III

SUGGESTIVE LIST OF MANPOWER AND INFRASTRUCTURE REQUIRED FOR TESTING CENTRE FOR TESTING OF HAND TOOLS, MANNUAL / BULLOCK DRAWN EQUIPMENTS AND POWER DRIVEN MACHINES.

1. MANPOWER

S.No.	Name of Post	No. of posts	Qualification
1.	Test Engineer (Equivalent to Asstt. Professor in SAUs.)	One	Graduation in Agricultural Engineering with experience in the area of testing and evaluation of machines. Preferably Post graduation in Farm Machinery and Power.
2.	Senior Technical Assistant (Equivalent to Senior Research Assistant in SAUs)	One	Graduation in Agricultural Engineering
3.	Test Operator	One	ITI in Diesel Mech./Motor Mech./Farm Mech. or its equivalent with experience in handling of agricultural machines.
4.	Skilled Labour	One	Class 10 th Pass with Tractor Driving experience.

2. LAND AND BUILDINGS

S.No.	Particulars of requirements
1.	One Office building for Testing Engineer, Senior Technical Assistant with furniture, computer and internet facility.
2.	One closed shed of Size 30 X 50 or 25 X 40 ft with sitting arrangement for Test Operator /Skilled Labour.
3.	5 – 10 Acres of Irrigated Agriculture/cultivated land for field trials.
4.	Small workshop for repair and maintenance of agricultural machines. Having workshop machinery such as Lathe, drill machine, welding machine, power hacksaw etc.

3. PRIME MOVERS

S.No.	Particulars	Qty.
1.	Tractor – 35-40 PTO HP	1 No.
	- More than 50 HP	1 No.
2.	Power Tiller (10 – 15 HP)	1 No.
3.	Electric Motors (7.5 HP)	1 No.

4. INSTRUMENTATION

S.No.		Qty.
1	Dynamometer (25 kw) for testing engines of self propelled machines.	1 No.
2.	Set of meteorological instruments such as :	
a)	Vernier Caliper	2 Nos.
b)	Micrometer (different range)	2 Sets
c)	Bore gauge (different range)	2 Sets
d)	Spirit level	2 Nos.
e)	Abney level	2 Nos.
3.	Measuring instruments such as :	
a)	Stop watch	2 Nos.
b)	Thermometer	2 Nos.
c)	Barometer	2 Nos.
d)	Hygrometer	2 Nos.
e)	Tachometer (contact and non-contact)	2 Nos.
4.	Equipments for material testing such as :	
a)	Hardness testing machine (Brinell and Rockwell)	1 No.
b)	Hardness testing machine (Non conducting metals)	1 No.
5.	Equipments for mass measurement :	
a)	Digital electronic balance (1 Kg)	1 No.
b)	Platform type balance (200 Kg)	1 No.
c)	Spring balance (0-10 Kg , 0.20 Kg and 0.50 Kg.)	1 No. each
6.	Moisture Measuring Instruments :	
a)	Hot air oven	1 No.
b)	Speedy soil moisture meter	2 Nos.
c)	Grain moisture meter (0-50%)	2 Nos.
7.	Equipments for Pull Measurement	
a)	Dynamometer – spring type (0-1000 Kg)	1 No.
b)	Digital load cell with indicator (2 Ton)	1 No.
8.	Volume fuel consumption measurement	
a)	Measuring Jar Set	1 Set
9.	Soil testing equipments	
a)	Bulk density apparatus	2 Nos.
b)	Speedy soil moisture meter	2 Nos.
c)	Cone Penetrometer	2 Nos.
d)	ISI Soil test sieves	1 Set
10.	Workshop and Service tools	
a)	Platform type Jack (500 Kg)	1 No.
b)	Flat bed trolley (1000 Kg)	1 No.
c)	Air Compressor	1 No.
d)	Tool Kits (spanners, special repair tools, grease guns, torque wrench etc.)	2 Nos.