

**Department of Agriculture & Cooperation
(Mechanisation & Technology Division)
Ministry of Agriculture, GOI**

Guidelines for testing of Agricultural Equipments and Machineries by approved State Agricultural Universities (SAUs), ICAR Institutions and Departments of State Government

Background:

Ministry of Agriculture, Department of Agriculture & Cooperation's vide notification No.8-1/2004-M&T (I&P), dated 14th September 2010 and as appended/amended from time to time has designated 25 (twenty five) State Agricultural Universities, ICAR Institutions and Departments of State Government as approved testing centres for certain categories of agricultural equipments.

This guideline is an attempt to streamline, unify and standardise testing procedures to be adopted by these approved testing centres.

Guidelines:

1. Two category of tests viz. Commercial and Confidential will be carried out at these approved testing centres.
2. Agricultural Machinery and equipments including new equipments developed by ICAR/State Government, Research Institutions as per Annexure - I, Schedule - B of No.8-1/2004-M&T (I&P), dated 14th September 2010 only will be considered for testing by these centres.
3. Machines/Equipment will be tested after receipt of written request from Manufacturer/ dealer (referred to applicant hereinafter). Following may be ensured before accepting test samples :
 - a) Full technical specifications of the Test Sample in prescribed format as in vogue in four FMT&TI are available along with.
 - b) Advance Test Fee as decided by respective Testing Authorities is submitted by the applicant (**A guidelines circulated by DOAC is given in Annexure II**).

4. The Institutes may maintain record of testing as per following format:

S. No.	Name of Equipment, make & model	Type of Test		Date of receipt of applicant's application with full specifications in Triplicate of Test Sample including Test Fee if applicable	Date of commencement of testing	Date of completion of test and release of Draft Test Report. Indicate Report No/ID	Total time taken in completion of test (Months)
		Commercial	Confidential				
1.	2.	3.	4.	5.	6.	7.	8.

- These designated Institutions or approved centres should notify 'Testing Authority' by designation who will only be authorised to accept test samples, conduct testing and issue test reports.
- Testing of equipment will be conducted as per relevant BIS Test Codes. If for any machine /component the BIS Code is not available, Institutions may consult other designated Institutions /FMTTI's /CIAE, Bhopal for similar code. In case it is not available anywhere, the test procedure shall be framed by the Testing Authority in consultation with applicant/manufacturer etc.
- Respective approved centres may frame a time schedule applicable for testing of equipment. This schedule may also be made available on website. An illustrative schedule for this purpose can be as under:

S. No.	Category of Equipment/Machine	Time required for completion of test and releasing draft test report
1.	Hand Tools	2-3 months
2.	Manual operated tools/Equipments	2-3 months
3.	Animal drawn Machine/Equipments	3-4 months depend upon timely submission of test sample based on season etc.
4.	Tractor drawn Machine/Equipment	3-4 months depend upon timely submission of test sample based on season etc.
5.	Self propelled Machine/Equipment upto 3.5 kW capacity	3-4 months depend upon timely submission of test sample based on season etc.
6.	Any other Machine/Equipments developed by ICAR/State Government/Research Institutions etc.	Time of testing depends upon performance of machines and their requirements declared by the manufacturer/applicant.

5. The manufacturer/applicant shall supply spare parts necessary for general maintenance or minor repairs to the Testing Authority. Unused spares will be returned to applicant after completion of test. In case of damage or breakdown of any component during the course of testing, the applicant, with the permission of Testing Authority, should replace the component with a new one having same specifications.
6. The applicant shall also supply special tools, if any, required for servicing, adjustment minor/major repair of the machine along with list thereof.
7. The applicant shall supply three copies each of published literature, detailed specification, operator and service (workshop) manual and illustrated parts catalogue along with the test sample in English as well as in regional language. Other technical details as specified by Testing Authority shall also be supplied by the applicant.
8. The operation of the machines shall be carried out according to the procedure laid down in the manufacturer's printed literature unless otherwise specified by the applicant prior to the commencement of test.
9. It will be the responsibility of the applicant to ensure that the machine or equipment is in good working condition. In case the machine requires running-in test, same will be carried in consultation with the Testing Authority.
10. One authorised representative of the applicant, at the discretion of the Testing Authority, will be permitted to witness the testing process. The representative may also be allowed to collect necessary factual data about the performance of the machine on the clear understanding that the name of the Testing Authority shall not be associated with data so collected or published later.
11. For conducting field performance tests on agriculture machinery, the applicant should supply all necessary attachments, jigs, fixtures etc along with the test sample. Testing Authority will not be responsible for any damage to or variation in the performance of machine due to inappropriate attachments.
12. Neither the Testing Authority nor anybody engaged in this behalf for conducting tests will be held responsible for any accident, damage or loss whatsoever, to the machine/component/equipment which may occur while in custody, storage, transit and /or during the tests.
13. When special/additional parameters are to be measured during performance tests, additional expenditure as determined by the Testing Authority, will be payable by the applicant.
14. The testing of machine/components shall be commenced by the Testing Authority only after completion of all formalities by the applicant.
15. On completion of test and payment of testing charges in full, a copy of the 'draft' test report shall be prepared by the approved/designated centre and made available to the applicant for comments. The applicant shall furnish comments within 15 days. In case the applicant fails to submit comments within the stipulated time, the Testing Authority may release the final test report. In case of commercial test reports, such

applicant's comments which contribute technically to the contents of the test report will, at the discretion of the Testing Authority, be included in the test report under a separate chapter referred to as "Applicant's Comments.

16. If the cost of printing of the test report is borne by the Institute, only 3 copies of the test reports shall be supplied to the applicant free of cost. Additional copies shall be supplied on payment that may be fixed by the Testing Authority from time to time.
17. The test report issued by the Testing Authority shall be applicable to a particular model or sample of machine/implement/component etc only not to similar/variant model.
18. The test reports issued by the 'Testing Authority' shall contain only performance data/parameters obtained on a particular sample of a model/brand during testing by the Testing Authority. These, however, do not communicate/signify approval/recommendation of the Government of India or the Testing Authority for any Govt. programme or otherwise.
19. No interim test report shall be issued to a machine while under testing.
20. Dept. of Agriculture and Cooperation, Ministry of Agriculture, Government of India reserves the right to recommend and incorporate changes in this guideline at any time as may be found necessary.
21. Various laboratory tests data viz. checking specification in full, hardness-chemical composition of soil engaging parts in case of tillage tools, measurement of capacity in respect to storage, fuel and lubricant levels etc shall only be recorded in prescribed format laid down as per relevant test code/procedure of the machine or being adhered by FMTTI's.
22. All field tests viz. performance test etc shall only be carried out as per relevant test code/procedure of the machine or procedure framed as per S.No. 6 above.
23. All performance characteristics viz. power, capacity including matching size of prime mover or power source shall be declared by the manufacturer/applicant before starting of test.
24. Sample format for test reports may be obtained from FMT&TI's.
25. The overall presentation/quality of the final test report shall be at par with quality of the test report released by FMT&TI's and accepted by all the States and Union Territories for subsidy and implementation of other Government Schemes where test reports are required.
26. Respective designated Institutions may finalise modalities to apportion revenue earned as testing fees.

Annexure I

List of Agricultural Machineries and Equipment to be tested at Approved Testing Centres at SAUs/ICAR Institutes/Departments of State Govts

- 1) All non-self propelled farm equipment including rice transplanters and reapers
- 2) Self-propelled reapers/weeder and other machines up to 3.5 kW engine

Note: PAU Ludhiana and CIAE Bhopal centres to test **Tractor mounted Combines.**

Annexure II

TESTING CHARGES LEVIED BY FMT&TIS FOR TESTING AGRICULTURAL EQUIPMENTS/MACHINES:

The testing charges levied by Farm Machinery Training and Testing Institutes effective during 2011-12 are as under:

S. No	Name of Machine / Implement	2009-10					2010-11				
		Testing Charge	Service Tax @ 10%	Edu. Cess @ 2% on ST	Hr. Edu. Cess @ 1% on ST	Total	Testing Charge	Service Tax @ 10%	Edu. Cess @ 2% on ST	Hr. Edu. Cess @ 1% on ST	Total
A	MACHINES / IMPLEMENTS OTHER THAN POWER TILLERS (TESTING CHARGES as fixed by M/o. Agriculture, DOAC, vide OM No.10-6/98-My(I&P) dated 16.05.2000 & No.10-2/2002-My(I&P) dated 11.11.2003 in respect of different categories of Agricultural Machinery)										
1	Components	3471	347	7	4	3829	3992	399	8	4	4403
2	Hand Tools	3471	347	7	4	3829	3992	399	8	4	4403
3	Power Operated Thresher, Decorticator, Sheller, Winnowing, etc.	13878	1388	28	14	15308	15960	1596	32	16	17604
4	Animal Drawn Equipments	7403	740	15	7	8165	8513	851	17	9	9390
5	Tractor Drawn/Power Operated Machines/ Equipments	23595	2360	47	24	26026	27134	2713	54	27	29928
6	Manually Operated equipments	6708	671	13	7	7399	7714	771	15	8	8508
7	Power Tiller Driven/Self Propelled Reaper, etc.	13878	1388	28	14	15308	15960	1596	32	16	17604
8	Tractor drawn/ Operated Seed-cum-fertilizer drill/planter, straw reaper, mini rice mill, power seed cleaner/ grader machines/ Equipments	24750	2475	50	25	27300	28463	2846	57	28	31394
9	Animal	19660	1966	39	20	21685	22609	2261	45	23	24938

S. No	Name of Machine / Implement	2009-10					2010-11				
		Testing Charge	Service Tax @ 10%	Edu. Cess @ 2% on ST	Hr. Edu. Cess @ 1% on ST	Total	Testing Charge	Service Tax @ 10%	Edu. Cess @ 2% on ST	Hr. Edu. Cess @ 1% on ST	Total
	drawn Multi-tool-bar (Minimum four attachments)										
10	Self Propelled Paddy Transplanter	33771	3377	68	34	37250	38837	3884	78	39	42838
11	Power Operated Multicrop thresher (Two or more crops)	25445	2545	51	25	28066	29262	2926	59	29	32276
B	POWER TILLERS (As fixed by M/o. Agriculture, DOAC, vide OM No.10-6/98-My(I&P) dated 14.08.2007)										
1	Initial Commercial Test (ICT)	145000	14500	290	145	159935	145000	14500	290	145	159935
2	Batch Test	135000	13500	270	135	148905	135000	13500	270	135	148905
3	Confidential Test	159500	15950	319	160	175929	159500	15950	319	160	175929
4	Conversion of Type of Test from (Confidential to Commercial)	72500	7250	145	73	79968	72500	7250	145	73	79968

TESTING CHARGES FOR TRACTORS & COMBINE HARVESTERS:

The prevailing Testing charges/fee fixed vides Ministry of Agriculture, Deptt. of Agriculture & Cooperation, New Delhi vide OM No.10-6/98-My (I&P) dated 14th August, 2007 in respect of Tractors Power Tillers & Combine Harvesters are as under:-

S. No.	Name of the Machine	Revised testing fee (Rs)	ST+CESS@ 10.3%	Total amount (Rs)	
1	Tractors				
	a	Initial Commercial Test	2,70,000/-	27,810/-	2,97,810/-
		40 % of ICT test fee	1,08,000/-	11,124/-	1,19,224/-
		75 % of ICT test fee	2,02,500/-	20858/-	2,23,358/-
		90 % of ICT test fee	2,43,000/-	25,029/-	2,68,029/-
	b	Batch Test	2,60,000/-	26,780/-	2,86,780/-
	c	OECD Test	2,20,000/- + Plus the fee charged by the OECD for approval of each test report	22,660/-	2,42,660/-
	d	Confidential Test	2,97,000/-	30,591/-	3,27,591/-
2	Combine Harvesters				
	a	Self propelled	3,15,000/-	32,445/-	3,47,445/-
	b	Tractor powered	2,40,000/-	24,720/-	2,64,720/-
4	Emission Test		88,000/-	9,064/-	97,064/-
5	CMVR Certification		50,000/-		50,000/-
	Extension of CMVR without inspection/ test				10000/-
	Extension of CMVR with inspection/ test				25,000/-

N.B.:-

1	The revised fee will be effective from the date of issue of this order for a period of three years or till further order of revision.
2	The machines which are under test on or after the date of applicability of the order, the fee will be charged at the revised/new rates.
3	In case, where the manufactures get the machine tested partly i.e. test of few parameters rather than going for full test, the test fee will be charged at the following rates:
a	For testing of one parameter, the testing fee will be at the rate of 40% of the full test fee.
b	For testing of more than one parameter and up to 50% of total test parameters, the test fee will be at the rate of 75% of the full test fee. [As per Letter No. 10-6/96- My (I&P) dated 3dr July, 2008, if the parameters are more than 50% of the total test parameters, full test fee is to be charged.]
c	For full laboratory test (where laboratory and field tests are prescribed), test fee will be at 90% of the full test fee. In same way it will be applicable for field test as well.
4	The test fee for confidential test would be 10% higher than the test fee applicable for Initial Commercial test.
5	Additional test fee to the tune of 50% of the test fee applicable for Initial Commercial Test will be chargeable for conversion of nature of test from Confidential to Commercial within the provisions contained in the Test Regulation. The bank draft of such fee shall be deposited by the application at the time of application with the Director of the Institute. However, the same shall be refunded if the conversion is not approved.
6	12% service tax will be charged on lump-sum testing charges as per the Ministry's letter No. 1-16/2002- My (Admin) Dated 6th January, 2004. The service tax has been applicable @ 10% w.e.f. 1.4.2009.
7	3% CESS on service tax will be charged. (Effective from 12.04.2007)