DRAFT GUIDELINES FOR VARIANT TESTING OF CULTIVATOR

Criteria for Determining New Model / Variant of Cultivator

1. Base Model

A base model of cultivator (rigid tine cultivator, spring tine cultivator, duck foot cultivator) shall be defined as the one which has defined specifications as reported in the Initial Commercial Test (ICT) report.

- Manufacturer shall specify the base model along with the list of variants, which could be added, deleted or supplemented to arrive at variants of the subject base model.
- The cultivator will be tested as per the relevant Indian Standards:
  1. IS 3342 :1998 (Reaffirmed 2019) – Soil working equipment - cultivators, animal drawn - specification
  2. IS 7565 : Part 1 : 1975 (Reaffirmed 2019) - Tines for Tractor-operated Cultivators - Part I : Rigid Tines
  3. IS 7565 : Part 2 : 1988 (Reaffirmed 2019) - Tines for Tractor Operated Cultivators - Part 2 : S-type Tines
  4. IS 17231 : 2019 (ISO 730 : 2009) (Reaffirmed 2023) - Agricultural Wheeled Tractors — Rear-Mounted Three-Point Linkage — Categories 1N, 1, 2N, 2, 3N, 3, 4N and 4
  5. IS 9818 : Part 1 : 1981 (Reaffirmed 2019) - Glossary of terms relating to tillage and inter-cultivation equipment: Part 1 General terms
  6. IS 9818 : Part 2 : 1981 (Reaffirmed 2019) - Glossary of terms relating to tillage and inter-cultivation equipment: Part 2 Terms relating to equipment

- An ICT report shall be released based on these standards.

2. Variant Model

A variant model of cultivator may be derived from a base model by addition/deletion/supplementation of one or more of the features without affecting much the principle of design and performance as mentioned in the Table 1.

For conformity of a variant model, specifications of the model will be verified physically or through lab tests as required.

3. New Model

If any parameter/change falls outside the features listed in the Table 1, it shall be treated as a New Model and subjected to complete testing as per initial commercial test (ICT).

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Variants

1. Variants (Cultivator**)**

The variant model(s) may be derived from a base model by addition/deletion/supplementation of one or more of the features given in the Table 1.

- The variants shall be subjected to test as specified against changes in features as mentioned in the Table 1.

2. Submission of application for variant testing

- The manufacturer/applicant may submit the application for testing of a variant model along with the test (ICT) report of base model.
- If, during initial inspection, the model submitted for variant testing is found not qualifying within the definition of a variant, then the applicant has to apply for ICT as a new model.

3. Test fees

The test fees for variant testing of the cultivator will be as under:-

Nature of test	Test to be conducted	Testing charges
Variant testing	Physical inspection + lab tests	20% of that of ICT Rs. 41471/-*
	Physical inspection + Field test	20% of that of ICT Rs. 41471/-*
	Physical inspection + Lab tests + Field test	30% of that of ICT Rs. 62207/-*

* As amended/revised time to time.

4. Validity of Test report

The validity of Variant test report will be the same as the validity of ICT report of tested base model.

5. Conformity Checks for Variants

- Verification of Specification for features of variant as per Table 1 below.

Table 1- Determination of Variants for Cultivator

Sr. No.	Features of Variant	Tests/Inspection Required

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1	Change in number of tines and/or spacing between tines	Field test is to be conducted for 2 hours (2 trails for 1 hour each).
2	Change in type of tines (forged/rigid/spring-loaded/shovel/ sweep type)	For change in type of tynes (forged/rigid/spring loaded) – Field test is to be conducted in dryland operation for 4 hours (2 trails for 2 hour each).
3	Change in arrangement of mounting of tines on main frame	Dimensional verification & Field test is to be conducted for 2 hours (2 trails for 1 hour each).
4	Change in size and shape of tines	Field test is to be conducted for 2 hours (2 trails for 1 hour each).
5	Change in arrangement of shovel on tine	Dimensional verification & Field test is to be conducted for 2 hours (2 trails for 1 hour each).
6	Change in hitching arrangement [as per IS 17231 : 2019 (ISO 730 : 2009) (Reaffirmed 2023)]	Dimensional verification & Field test is to be conducted for 2 hours (2 trails for 1 hour each).

Note: If any parameter/change falls outside the features listed in the above Table 1, it shall be treated as a New Model and subject to complete testing as per Initial Commercial Test (ICT).

Draft Guidelines for Administrative Extension of Cultivator

1. Administrative Extension

1.1 Definition

An Administrative Extension may be granted when changes made to a Cultivator are of non-technical nature and do not influence the functional performance of the implement.

1.2 Typical Modifications

- Change in paint colour or decals.
- Change in model name, denomination or number for marketing purposes.

1.3 Conditions

- No impact on field performance, durability or safety.
- The testing station that carried out the original test is authorized to issue the Administrative Extension Report.
- The Administrative Extension Report shall contain a clear reference to the original test report (ICT).

1.4 Test fees

Test fees for Administrative Extension will be 10% (i.e. Rs.20736/-*) of that of ICT of Cultivator.

* As amended/revised time to time.

1.5 Validity of Test report

The validity of test report of Administrative Extension will be the same as the validity of ICT report of base model.

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Note: Any changes/ modifications the manufacturer wishes to make to the model will become permanent modification to the base model. After release of the administrative extension report, the manufacturer is required to implement these changes in their production line. These modifications are considered permanent updates to the base model.

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Technical Extension

Sr. No.	Features of Technical Extension	Tests/Inspection Required
1	Change in material of tine and/or shovel/sweep	Chemical composition and hardness test as per relevant IS code and if material conforms to relevant IS code, then no field test is required otherwise field test is to be conducted for 4 hours (2 trail for 2 hours each).

Test fees

Test to be conducted	Testing charges
Physical inspection + lab tests	20% of that of ICT Rs. 41471/-*
Physical inspection + Lab tests + Field test	30% of that of ICT Rs. 62207/-*

* As amended/revised time to time.

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