Revised Draft Guidelines for Variant Testing of Rotavator

Criteria for Determining New Model / Variant of Rotavator

1. Base Model

A base model of rotavator 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 rotavator will be tested as per the relevant Indian Standard (IS 17045:2018) and an ICT report shall be released.

2. Variant Model

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

For conformity of a **variant model**, specification of the model will be verified physically.

3. New Model

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

Variants

1. Variants (Rotavators)

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

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

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3. Test fees

The test fees for variant testing of the rotavator 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.

Table 1 – Determination of Variants for Rotavator

(Rotavator- specific variant features)

Sl. No.	Features of Variant	Tests/Inspection Required
1	Change in working width or change in number of blades	Field test is to be conducted in dryland operation for 3 hours (3 trails for 1 hours each) and in wetland for 2 hours (2 trails of 1 hour each).
2	Change in rotor diameter (±15% of base)	1. Physical inspection 2. Field test is to be conducted in dryland operation for 2 hours (2 trails of 1 hour each) and in wetland for 2 hours (2 trails of 1 hour each).
3	Change in skid depth control design	1. Physical inspection 2. Field test is to be conducted in dryland operation for 2 hours (2 trails of 1 hour each).
4	Change in rear shield design	1. Physical inspection 2. Field test is to be conducted in dryland operation for 2 hours (2 trails of 1 hour each).

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5	Change in total mass ± 15% (subject to no change in design of base model)	1. Physical inspection 2. Field test is to be conducted in dryland operation for 2 hours (2 trails of 1 hour each).
6	Change in three-point linkage as per IS 17231: 2019/ISO 730 : 2009	Mandatory dimensional verification & Field test is to be conducted in dryland operation for 2 hours (2 trails of 1 hour each).
7	Change in drive (Gear/Chain and sprocket)	1. Physical inspection 2. Field test is to be conducted in dryland operation for 2 hours (2 trails of 1 hour each) and in wetland for 2 hours (2 trails of 1 hour each).

Note: If any parameter/change falls outside the features listed in this 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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Guidelines for Administrative Extension and Technical Extension of Rotavators

Administrative Extension

1.1 Definition

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

1.2 Typical Modifications

- Change of paint colour or decals.
- Change in sheet metal parts such as covers, guards, or non-functional design features.
- 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.

1.4 Test fees

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

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

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extension report, the manufacturer is required to implement these changes in their production line. These modifications are considered permanent updates to the base model.

Technical Extension

Sr. No.	Features of Technical Extension	Tests/Inspection Required
1	Change in blade material (Boron, Alloy steel etc.)	1. Physical inspection 2. Hardness and Chemical Composition for blade material. 3. If blade material conforms to the relevant IS Code, then no field test is required otherwise dryland operation test for 4 hours (2 trails for 2 hours each) in case change in blade type or blade material.

2. 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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