

व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच) अपूर्ण  
COMMERCIAL TEST REPORT (1<sup>st</sup> Batch)  
INCOMPLETE

संख्या / No. : T-1517/2044/2021  
माह / Month : February, 2021



**EICHER, EICHER 485 USJ TRACTOR**



सत्यमेव जयते

भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय  
कृषि, सहकारिता एवं किसान कल्याण विभाग  
मशीनीकरण एवं प्रौद्योगिकी प्रभाग

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(DEPARTMENT OF AGRICULTURE, CO-OPERATION & FARMERS WELFARE, MECHANIZATION & TECHNOLOGY DIVISION)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

ट्रैक्टर नगर, बुदनी (म.प्र.) ४६६ ४४५

**CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE**

(An ISO : 9001 - 2015 Certified Institute)

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Eicher, Eicher 485 USJ tractor had under gone Initial commercial test at this Institute and test report number T-1031/1556/2016 released in July 2016. The applicant submitted an application number TMTL/485USJ/BT02/2020-21 dated 01.12.2020 for the Batch Testing of Eicher, Eicher 485 USJ tractor. Test sample was selected and submitted for the test by the applicant. On physical examination of the labelling plate riveted on the test sample the model name of test sample was found as "Eicher 485 HYDROMATIC" and declared PTO power was not mentioned on it. The model name embossed on the plate was not matched with the technical specifications submitted by the applicant and thus does not meet the evaluative requirement as per serial number (x) of table 1 of IS: 12207:2019. Upon this the firm has requested vide letter no. TMTL/485USJ/BT05/2020-21 dated 05.02.2021 for the withdrawal of tractor from the test. The competent authority has accepted for the withdrawal of tractor from the test. Hence incomplete test report is released here.

**Manufacturer** : M/s. Eicher Tractors (A unit of TAFE Motors & Tractors Limited, a wholly owned subsidiary of TAFE), Plot No.1, Sector - D, Industrial Area, Mandideep – 462 046, Distt. Raisen (M.P.)

Test requested by : The manufacturer  
Place of running-in : At Applicant's works  
Duration of said running-in, (h):  
- Engine : 21  
- Transmission : 32

**Method of Selection** : The tractor was submitted directly by the applicant for test as Ministry has exempted the random selection of the tractor upto 31.03.2021.

## 1. SPECIFICATIONS

- 1.1 Tractor:**
- Make : Eicher  
Model : Eicher 485 USJ (as per specifications)  
Eicher 485 HYDROMATIC  
(as per labelling plate fitted on the tractor)  
Type : Four wheeled, rear-wheel driven, unit construction, Standard Agricultural Tractor  
Year of manufacture : 2020  
Chassis number : 929411595442  
Country of origin : India
- 1.2 Engine:**
- Make : Eicher  
Model : 398 ED  
Type : Air cooled, four stroke, direct injection, diesel engine  
Serial number : 529427232242
- 1.2.1 Engine speed(Manufacturer's recommended production setting), (rpm):**
- Maximum speed at no load : 2300 to 2400  
- Low idle speed : 650 to 750  
- Speed at maximum torque : 1000 to 1400
- Rated speed, (rpm):**
- For PTO use : 2150  
- For drawbar use : 2150

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**1.15 Labelling of tractor as per IS: 10273-1987 (Reaffirmed in March, 2014):**

The Labelling plate riveted on inner side RHS mudguard, provides the following information:

Name of Manufacturer	<b>Eicher Tractors (A Unit of Tafe Motors And Tractors Limited), Mandideep, Dist - Raisen (M.P.) – India</b>
Make	<b>Eicher</b>
Model	Eicher 485 HYDROMATIC
Month and Year of manufacture	06/2020
Engine serial number	529427232242
Chassis serial number	929411595442
Maximum P.T.O Power, kW	Not mentioned
Specific fuel consumption, g/kWh	265

**1.16 Colour of tractor:**

Chassis & engine : Smoke grey  
 Bonnet : Sliver  
 Mudguard, wheel discs & rims : Sliver

**2. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS**

**2.1** Evaluative (mandatory) / Non-evaluation (Non-mandatory) parameter applicable for qualifying Minimum Performance criteria as per Clause-4 (Table-1) of **IS: 12207-2019** for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

S. No.	Characteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	Values declared by the applicant (D)/ Requirement (R)	As observed	Whether meets the requirements (Yes/No.)
1	2	3	4	5	6	7
<b>2.1.1</b>	<b>Labeling of tractors (Provision of labeling plate):</b>					
1)	Make	Evaluative	Should conform to the requirements of CMVR along with maximum declared value of PTO power in kW and for month & year of manufacture in numerical MM   YY Digit 01-12 in box No.1 for MM will represent the month and next two digit in the box No.2 for YY will represent the year of manufacturing	--	Eicher	Yes
2)	Model	Evaluative		--	Eicher 485 HYDROMATIC	<b>NO</b>
3)	Month & Year of manufacture	Evaluative		--	06/2020	Yes
4)	Engine serial number	Evaluative		--	529427232242	Yes
5)	Chassis number	Evaluative		--	929411595442	Yes
6)	Declaration of PTO power, (kW)	Evaluative		--	Not mentioned	<b>NO</b>
7)	Specific fuel consumption, g/kWh	Evaluative		--	265	Yes

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2.1.2 Literature (Submission to test agency)						
(a)	Operator manual	Evaluative	Provided/ Not Provided	As relevant Code 8132)	per IS (IS	Not Provided <b>NO</b>
(b)	Parts Catalogue	Evaluative	Provided/ Not Provided	As relevant Code 8132)	per IS (IS	Not Provided <b>NO</b>
(c)	Workshop/ Service manual	Evaluative	Provided/ Not Provided	As relevant Code 8132)	per IS (IS	Not Provided <b>NO</b>
2.1.3	<b>Fitment of Roll Over Protective Structure (ROPS):</b> for tractors having more than 1150 mm rear track width	Evaluative	ROPS should meet the requirement of IS:11821 or OECD code or equivalent International Standard	Not Provided	Not Fitted	Not Applicable
2.1.4	<b>Standard accessories</b>	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Provided	Yes
2.1.5	<b>Accessories (Optional)</b>	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR.	Provided	Provided	Yes

2.2 CATEGORY OF BREAKDOWNS / DEFECTS :					
S. No.	Category of breakdowns	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the requirements (Yes/No.)
1.	Critical	Evaluative	There is no 'critical breakdown' during the course of testing	None	Yes
2.	Major	Evaluative	There are not more than 1 major breakdowns and neither of them is of repetitive nature	None	Yes
3.	Minor	Evaluative	There are not more than 3 minor defects during the test and the frequency of each is not be more than two	None	Yes
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed four that is, (1 major + 3 minor) or 4 minor breakdowns	None	Yes

**2.3 Salient Observations:****2.3.1 Labeling plate:**

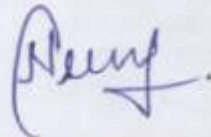
- i) The model name embossed on the plate was not matched with the technical specifications submitted by the applicant and thus does not meet the evaluative requirement as per serial number (x) of table 1 of IS: 12207:2019. This calls for stringent quality control checking at production line and R&D level during selection of tractor.
- ii) The maximum PTO power has not been mentioned on the labelling plate of the tractor. This does not meet the evaluative requirement of IS: 12207-2019.

**2.3.2 Adequacy of Literature supplied with machine:**

No any literature was supplied with the tractor. This calls for the submission of the adequate literatures with the test sample.

**3. CITIZEN CHARTER**

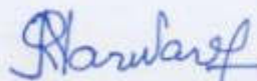
Time frame for Testing & Evaluation as per Citizen Charter	Duration of Test	Whether the Test Report is released within the time frame given in Citizen Charter	Remarks
10 Months	1 Months (January, 2021)	Yes	None

**TESTING AUTHORITY:**


**NITESH KUMAR VERMA**  
AGRICULTURAL ENGINEER



**C. V. CHIMOTE**  
TEST ENGINEER



**J. J. R. NARWARE**  
DIRECTOR

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**4. Applicant's comments**

<b>Para no.</b>	<b>Our reference</b>	<b>Comments received from the applicant</b>
4.1	2.3.1(i) & (ii)	These shall be checked at production line as well as at R&D level w.r.t. quality control and same will be updated on tractors accordingly.
4.2	2.3.2	Shall be submitted with test sample.

**Annexure – I**

**TRACTOR RUN HOURS DURING TEST**

<b>A.</b>	<b>LABORATORY AND TRACK TESTS:</b>	<b>HOURS</b>
1.	Inspection	0.25
	<b>TOTAL:</b>	<b>0.25</b>