प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट INITIAL COMMERCIAL TEST REPORT

माह/Month : June, 2024

Application Reference No. 28/2023-24/84

(यह परीक्षण रिपोर्ट 30/06/2029 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/06/2029)



Make of Agricultural Tractor Model Manufactured by

- : EICHER
- : EICHER 333 V3
- Eicher Tractors

 (A Unit of TAFE Motors & Tractors Ltd., A wholly owned subsidiary of TAFE)
 Plot No. 1, Sector – D, Industrial Area, Mandideep – 462 046, Distt. – Raisen (M.P.)



भारत सरकार कृषि एवं किसान कल्याण मंत्रालय (कृषि एवं किसान कल्याण विभाग)

GOVERNMENT OF INDIA MINISTRY OF AGRICULTURE AND FARMERS WELFARE (DEPARTMENT OF AGRICULTURE & FARMERS WELFARE) केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445 CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE TRACTOR NAGAR, BUDNI (M.P.) 466 445 (An ISO 9001:2015 Certified Institute)

E-mail: fmti-mp@nic.in

Web site: http://www.fmttibudni.gov.in

Telephone: 07564-299003

THIS TEST REPORT IS VALID UPTO: 30/06/2029

IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide an OM No. 13-17/2021-M&T (I&P) dated 28.07.2022 that since 15th August, 2022, only mandatory tests will be carried out on a tractor unless applicant has expressly requested for optional tests as well, mentioned in the above captioned OM.

In the instant case, there is no request from the applicant to carry out the optional tests hence only Mandatory Tests, as given below, have been conducted and reported in this report: -

- 1. PTO performance
- 2. Hydraulic performance
- 3. Drawbar performance
- 4. Brake performance

Month: June	Test Report No.: T-1858/2389/2024	Year: 2024



GOVERNMENT OF INDIA CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE TRACTOR NAGAR, BUDNI (MADHYA PRADESH) 466445, INDIA

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1-1	858	/2389/	2024

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[C]	Tractor manufacturer's name and address	:	Eicher Tractors (A Unit of TAFE Motors & Tractors Limited, A wholly owned subsidiary of TAFE) Plot No. 1, Sector – D, Industrial Area, Mandideep – 462046, Distt. – Raisen (M.P.)
[C]	Submitted for test by (Applicant)	:	The Manufacturer
[C]	Selected for test by	:	The Ministry vide OM No. 13-17/2021 - M&T (I&P) dated 28.07.2022, has allowed the applicant to submit the test sample directly to the Institute without requiring any random selection for Initial Commercial Testing. Thus, the applicant directly submitted the test sample to the Institute for test.
[D]	Place of running-in	:	At manufacturer's works
[D]	Duration of running-in (h):		
	-Engine	:	21
	-Transmission	:	32
[C]	Location of test	:	Government of India, Central Farm Machinery Training and Testing Institute, P.O Tractor Nagar, BUDNI – 466445 (M.P.), INDIA

1. SPECIFICATIONS OF TRACTOR

1.1 1.1.1 [C] [C] [C] [C] [D]	Identification: Denomination Make of tractor Model Type Month & year of manufacture Country of origin		EICHER EICHER 333 V3 Rear Wheel Driven, Standard Agricultural Tractor 01 / 24 India
1.1.2 [D] [C]	Numbers: 1 st Serial No. of prototype Serial No.	:	932714180389 933714136248
1.2 [D]	Engine: Manufacturer's address	:	Simpson & Co. Ltd. Sembiam plant, Huzur Gardens, Sembiam, Chennai -600 011
[C] [C] [C]	Make Model Type Serial No.	:	Simpsons T IIIA S324-F1.1 Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine S324F85433
1.2.1 [C] [D] [D] [D] [D]	Cylinders: Number/disposition Bore / Stroke, (mm) Capacity, cm ³ Compression ratio Arrangement of valves		Three / vertical, inline 88.9 / 127 2365 $18.5 : 1 \pm 0.3$ Overhead, Inline
[D] [D] 1.2.2	Cylinder liners Type of combustion chamber Supercharging	::	Dry, replaceable Direct combustion, Re-entrant type Not available

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6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

6.1 On the basis of test conducted the performance results have been summarized as evaluative (mandatory) / Non-evaluative (Non-mandatory) parameters applicable for Qualifying Minimum Performance criteria as per Clause-4 (Table-1) of **IS: 12207-2022** for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

SI. No.	Characteristic		Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirem- ents (Yes/No)
1	2		3	4	5	6	7
	dated	d 28 th of July, 2		inistry's Office Memorandum	No. 13-17/	2021-M&	T (I&P)
6.1.1	PTO	Performance:					
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)		Evaluative	Declared value to be achieved with a tolerance of: \pm 5% for PTO power and or engine power >26 kW. \pm 10% for PTO power and or engine \leq 26 kW.	23.9 (D)	23.5	Yes
b)	engin (kW)	er at rated le speed,	Non Evaluative	-do-	23.9 (D)	23.5	Yes
C)	Specific fuel consumption corresponding to maximum power, (g/kWh)		Evaluative	Should not be more than 10% of declared value.	250 (D)	252	Yes
d)	Maximum equivalent crankshaft torque, (Nm)		Non Evaluative	± 8%	135.3 (D)	132.4	Yes
e)	Back perce	-up torque, ent	Evaluative	Should be min. 12%	12 (D) 12 (R)	18.3	Yes
f)	Maxir	mum operating		^o C):			
	1)	Engine oil	Evaluative	The declared value should not exceed the Max value specified by the oil company and the observed value under natural ambient/high ambient condition should not exceed the declaration.	130 (D)	104	Yes
	2)	Coolant	Evaluative	Observed value should not exceed the declared value or boiling point of coolant at radiator cap pressure whichever is lower. The boiling point of the coolant at radiator pressure shall be provided by the applicant.	120 (D)	87	Yes
g)	Engine oil consumption, (g/kWh)		Evaluative	Not exceeding 1% of SFC at Max power under natural ambient condition. The value would be based on the test conducted under natural ambient condition	2.52 Maximum	0.81	Yes
h)	Smoke level, m ⁻¹		Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR). Max Smoke level shall be reported out of 6 readings tested as per IS 12062 and observed value should be well within the required limits.	3.25 per meter Maximum	0.15	Yes

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1	2	3	4	5	6	7
6.1.2	Drawbar performa	-		U	•	
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	*	*	*
b)	slip, (kN) Max. drawbar pull with unballast corresponding to 15 percent wheel slip, (kN)	Evaluative	In case of tractors having total static mass ≥ 1500 kg, Min 70% of static mass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors	13.85 (D) 13.94 (R) Minimum	15.47	Yes
	Movimum drowbor	Evoluctive	having ≤ 1500 kg total static mass of tractor, Min. 65% of static mass of tractor without ballast or with standard ballast, as the case may be.	10.12 (D)	20.9	Voo
c)	Maximum drawbar power with unballast, (kW).	Evaluative	Minimum 80 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg Minimum 75% of PTO power as referred in SI No. i) a) of PTO performance in case of light weight tractors having ≤1500 kg total static mass of tractor. Minimum 75 % of the engine power as referred in SI No. i) a) of engine performance in case of tractors which do not have a PTO shaft.	<u>19.12 (D)</u> 18.8 (R) Minimum	20.8	Yes
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the recommendation by the oil manufacturer. The observed value should not exceed the declared value throughout the drawbar test.	120 (D)	103	Yes
* Annlice	ant vide letter no. TM	L TL/ICT/E333\/3	3/2023-24/03 dated 05.02.2024	has request	ed to cond	uct the
testing a	as per the additiona 5476) dated 16.05.2	al guideline fo	r testing of tractors vide OM Jly, drawbar performance test u	No. 13-32/2	2023-M&T	(I&P)
6.1.3	Power lift and hyc	raulic nump n	erformance:			
a)			but the range of lift, (kN):			
aj	1) At hitch points	Evaluative	Should not be less than 90% of declared value.	11.77 (D) 10.59 Minimum	12.18	Yes
	2) With the standard frame	Evaluative	The lift capacity should at least be 24 kg/PTO kW and it should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft.	10.79 (D) 5.53 Minimum	10.65	Yes

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1	2	3	4	5	6	7
b)	Maximum drop in the height of the point of application of the force after each 5 minutes	NonThe observed value should50 (D)Evaluativenot exceed 50 mm.Maximum		20	Yes	
	interval for a total duration of 30 Minutes, (mm)					
6.1.4	Brake performance					
a)	ballast, (m):		orce, equal to or less than 600		pedal v	
	1) Cold brake	Evaluative	10	10	7.01	Yes
	2) Hot brake	Evaluative	10	10	7.07	Yes
b)	Whether parking brake is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever	Evaluative	Yes / No	Yes	Yes	Yes
6.1.5	OPTIONAL TESTS optional tests was		cant has not applied for any o	optional test	s, there	fore no
6.1.6	Safety features :					
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239 (Part 2)]	Meets the requireme		Yes
b)	Lighting arrangement	Evaluative	As per CMVR	Conforms	Conforms	
c)	Seating requirements (Tractors having more than 1150 mm rear track width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)	Does no meet the requireme	•	Νο
d)	Technical requirements for PTO shaft	Non Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meets the requireme		Yes
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS 17231: 2019 (As amended from time to time)	Does no meet the requireme	•	Νο
f)	Specifications of linkage drawbar	Non Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Meets the requireme		Yes
g)	Swinging drawbar (wherever fitted)	Non Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)	Not fitted		Not oplicable
h)	Audible warning signal on tractor	Evaluative	If tractor travel speed in reverse gear exceeds 20 kmph, an audible warning signal on tractor shall get activated. A sticker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed.	Not fitted		Not oplicable

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EICHER, EICHER 333 V3 - INITIAL COMMERCIAL TEST

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6.1.7 Labeling of tractors (Provision of Labeling plate): Image: Construction of Cons	1	<u> </u>	2		-	3		4			6	7
1) Make Evaluative Should conform to the requirements of CMVR EICHER 333 Yes 2) Model Evaluative along-with declared value V3 V3 3) Month & Evaluative requirements of CMVR EICHER 333 Yes V3 4) Engine Evaluative requirements of anomfacture in number 01 / 24 Yes 5) Chassis Evaluative number maximum power in g/kWh and year of manufacture in numerical form S324F85433 Yes 6) Maximum Evaluative numerical form Digit 01-12 in box No. 1 for MM will represent the month and next two digit in month and next two digit in month and next two digit in monthand next two digit in monthan ducturing. 250 Yes 6.1.8 Literature (Submission to test agency): The printed literature in provided Yes Provided Yes (b) Parts Catalogue Evaluative booklet form should be provided as per IS 8132 and should submit along with the equirement of IS:11821 or OES should meet the requirement of CMVR As observed As observed 6.1.11 Accessories Non Evaluative fou requirement of CMVR	617	21		ractor		-	l abelin	-		,	U	1
2 Model Evaluative requirements of CMVR along-with declared value of PTO in kW, Specific fuel consumption (SFC) EICHER 333 Yes 3) Month & Year of manufacture Evaluative consumption number of PTO in kW, Specific fuel consumption number 01/24 Yes 4) Engine number Evaluative number of PTO in kW, Specific fuel consumption numerical form S324F85433 Yes 5) Chassis Evaluative number MM YY 933714136248 Yes 6) Maximum PTO power, (kW) Evaluative nonth and next two digit in the box No. 2 for YY will consumption, (g/kWh) 23.9 Yes 6.1.8 Literature (Submission to test agency): (a) Degrator manual Evaluative Service manual Evaluative booklet form should be provided as per IS 8132 and should submit along with the test sample. Provided Yes 6.1.9 Fitment of Roll Over Protective Structurers (ROPS): For tractor having more than 1150 mm rear track width ROPS should meet the requirement of IS. 11821 or OCEC code or equivalent therative full entractor width Not fitted Not applicable 6.1.10 Standard Accessories Evaluative Non (optional) Non Evaluative Requirements as per IS: 12207-2022 As observed Whether meets the	0.1.7	-			•				to the	F		Yes
A along-with declared value of PTO in kW, Specific fuel consumption (SFC) corresponding to 01/24 Yes 4) Engine number Evaluative number maximum power in g/kWh and year of manufacture in number S324F85433 Yes 5) Chassis Evaluative number Digit 01-12 in box No. 1 for MM will represent the month and next two digit in 933714136248 Yes 6) Maximum Evaluative PTO power, (KW) Evaluative consumption, (g/kWh) Digit 01-12 in box No. 1 for MM will represent the month and next two digit in 933714136248 Yes 6.1.8 Literature (Submission to test agency): Iterature (Submission to test agency): Provided Yes (a) Operator manual Evaluative bookler form should be service manual The printed literature in provided as per IS 8132 and should submit along with the test sample. Provided Yes 6.1.9 Fitment of Roll Over Protective Structures (ROPS): For tractor having more than 1150 ROPS should meet the requirement of IS: 11821 or OECD code or equivalent international Standard. Not fitted Not applicable 6.1.10 Standard Accessories Evaluative ROPS should meet the requirement of CMVR As observed Whether meet the requirement of CMVR 6.2 CATEGORY UF BREAKDOWNS / DEFECTS (,										
3) Month & Year of manufacture Evaluative consumption (SFC) corresponding 01/24 Yes 4) Engine Evaluative number maximum power in g/kWh and year of manufacture in numerical form S324F85433 Yes 6) Chassis Evaluative number M YY S324F85433 Yes 6) Maximum Evaluative pTO power, (kW) 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 23.9 Yes 6.1.8 Literature (Submission to test agency): Operator manual Evaluative Evaluative The printed literature in booklet form should be provided as per IS 132 and should submit along with the test sample. Provided Yes 6.1.9 Fitment of Roll Over Protective Structures (ROPS): Not fitted Not applicable 6.1.10 Standard Accessories Evaluative width ROPS should meet the requirement of CMVR Provided Yes 6.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022); S. No. Category of Category of break-downs Category (Catagory of None There is no 'critical breakdown' Auning the course of testing, None Yes 1. Critical Evaluative There is no 'critical breakdown' Auning the course of		2)	Woder		Lvalua	uvc						105
Year of manufacture consumption (SFC) corresponding SS24F85433 Yes 4) Engine number Evaluative number maximum power in g/kWh and year of manufacture in numerical form S324F85433 Yes 5) Chassis Evaluative number numerical form 933714136248 Yes 6) Maximum PTO power, (kW) Evaluative MM will represent the month and next two digit in represent the year of manufacturing. 23.9 Yes 6.1.8 Literature (Submission to test agency): (g/kWh) The printed literature in month and next two digit in represent the year of manufacturing. Provided Yes 6.1.8 Literature (Submission to test agency): (g/kWh) The printed literature in provided as per IS 8132 and should submit along with the excluative Provided Yes 6.1.9 Fitment of Roll Over Protective Structures (ROPS): For tractor having more than 1150 mm rear track width ROPS should meet the requirement of IS: 11821 or OECD code or equivalent linkage drawbar should be provided with tractor Not fitted Not applicable 6.1.10 Standard Accessories Non Ballast weight, if fitted, should meet the requirement of CMWR Not fitted Not applicable 6.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per cla		3)	Month &		Evalua	tive	•					Yes
manufacture corresponding to 4) Engine number Evaluative number corresponding to 5) Chassis Evaluative number numerical form 933714136248 Yes 6) Maximum PTO power, (kW) Evaluative Digit 01-12 in box No. 1 for MM will represent the month and next two digit in 933714136248 Yes 7) Specific fuel consumption, (g/kWh) Evaluative Digit 01-12 in box No. 1 for MM will represent the yenoth and next two digit in 23.9 Yes 6.1.8 Literature (Submission to test agency): 0 Provided Yes (a) Operator manual Evaluative Evaluative The printed Iterature in booklet form should be provided as per IS 8132 and should submit along with the test sample. Provided Yes 6.1.9 Fitment of Roll Over Protective Structures (ROPS): For tractor having more than 1150 Evaluative ROPS should meet the requirement of IS: 11821 or OECD code or equivalent international Standard. Not fitted Not applicable 6.1.10 Standard (optional) Evaluative Trailer hitch, front two hook, linkage drawbar should be provided with tractor Provided Yes <td< td=""><td></td><td>3)</td><td></td><td></td><td>Lvalua</td><td>live</td><td></td><td></td><td></td><td></td><td>01/24</td><td>163</td></td<>		3)			Lvalua	live					01/24	163
4) Engine number Evaluative number maximum power in g/kWh and year of manufacture in numerical form S324F85433 Yes 5) Chassis number Evaluative numerical form 933714136248 Yes 6) Maximum PTO power, (kW) Evaluative MM YY 933714136248 Yes 7) Specific fuel consumption, (g/kWh) Evaluative Iterature (Submission to test agency): 250 Yes 6.1.8 Literature (Submission to test agency): The printed literature in booklet form should be provided as per IS 8132 and should submit the test sample. Provided Yes 6.1.9 Fitment of Roll Over Protective Structures (ROPS): For tractor having more than 1150 Evaluative test sample. Not fitted Not applicable 6.1.10 Standard Accessories Evaluative should ubmit tactor Trailer hitch, front tow hook, linkage drawbar should be provided with tractor Provided Yes 6.1.11 Accessories Non Evaluative Ballast weight, if fitted, should meet the requirement of CMVR Not fitted Not applicable 6.1.11 Accessories Non Evaluative Should meet the requirements of CMVR As observed				turo					` '			
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5) Chassis number Evaluative Numerical form numerical form 933714136248 Yes 6) Maximum PTO power, (kW) Evaluative MM YY 23.9 Yes 7) Specific fuel consumption, (g/kWh) Evaluative Digit 01-12 in box No. 1 for MM will represent the month and next two digit in 23.9 Yes 6.1.8 Literature (Submission to test agency): manufacturing. 250 Yes (a) Operator manual Evaluative Evaluative The printed literature in provided aper IS 8132 and should submit along with the test sample. Provided Yes 6.1.9 Fitment of Roll Over Protective Structures (ROPS): For tractor having more than 1150 ROPS should meet the requirement of IS: 11821 or inkage drawbar should be provided avabar should be provided with tractor Not fitted Not applicable 6.1.10 Standard Accessories Non Evaluative Trailer hitch, front tow hook, inkage drawbar should be provided with tractor Provided Yes 6.1.11 Accessories (optional) Non Evaluative Ballast weight, if fitted, should meet the requirement of CMVR Not fitted Not applicable 6.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per cl			-		Lvalua	live		•	-	00.	241 00400	103
6) Maximum PTO power, (kW) Evaluative MM YY Digit 01-12 in box No. 1 for MM will represent the month and next two digit in 7) Specific fuel consumption, (g/kWh) Evaluative Digit 01-12 in box No. 1 for MM will represent the year of manufacturing. 23.9 Yes 6.1.8 Literature (Submission to test agency): (a) Evaluative The printed literature in booklet form should be provided as per IS 8132 and should submit along with the test sample. Provided Yes 6.1.9 Fitment of Roll Over Protective Structures (ROPS): For tractor having mm rear track width Evaluative ROPS should meet the requirement of IS: 11821 or OECD code or equivalent International Standard. Not fitted Not applicable 6.1.10 Standard Accessories Evaluative Trailer hitch, front two hook, inkage drawbar should be provided with tractor Provided Yes 6.1.11 Accessories Non Evaluative Ballast weight, if should meet the requirement of CMVR Not fitted Not applicable 6.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022): S. No. Category of break-downs Category (Evaluative Requirements as per IS: 12207-2022 As observed Whether meets the Requirement (Yes/No) 1. Critical Evaluative There is no 'criti		5)			Evalua	tive	-			033	714136248	Ves
6) Maximum PTO power, (kW) Evaluative 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 (g/kWh) 23.9 Yes 6.1.8 Literature (Submission to test agency): (g/kWh) Evaluative The printed literature in provided as per IS 8122 and should submit along with the test sample. Provided Yes 6.1.9 Fitment of Roll Over Protective Structures (ROPS): more than 1150 mm rear track ROPS should meet the requirement of IS: 11821 or OECD code or equivalent international Standard. Not fitted Not applicable 6.1.10 Standard Accessories Evaluative Trailer hitch, front tow hook, linkage drawbar should meet the provided with tractor Provided Yes 6.1.11 Accessories Non (optional) Evaluative Trailer hitch, front tow hook, should meet the provided with tractor Provided Yes 6.1.11 Accessories Non (optional) Ballast weight, if fitted, should meet the requirement of CMVR Not fitted Not applicable 6.1.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022): As observed Whether meet sthe Requirement (Yes/No) 6.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022): As observed		5)			Lvalua	live				355	/ 14130240	163
PTO power, (kW) MM will represent the month and next two digit in the box No. 2 for YY will represent the year of manufacturing. 250 Yes 6.1.8 Literature (Submission to test agency): The printed literature in booklet form should be provided as per IS 8132 and should submit along with the test sample. Provided Yes 6.1.9 Fitment of Roll Over Protective Structures (ROPS): For tractor having more than 1150 mm rear track ROPS should meet the requirement of IS: 11821 or OECD code or equivalent inkage drawbar should be provided with ractor Not fitted Not applicable 6.1.10 Standard Accessories Evaluative For tractor having more than 1150 mm rear track Evaluative sould with requirement of IS: 11821 or OECD code or equivalent inkage drawbar should be provided with tractor Provided Yes 6.1.11 Accessories Non Evaluative Ballast weight, if fitted, should meet the requirement of CMVR Not fitted Not applicable 6.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022): As observed Whether meets the Requirements as per IS: 12207-2022 1. Critical Evaluative There is no 'critical breakdown' during the course of testing. None Yes 2. Major Evaluative There are not more than 2 major None Yes		6)		r	Evalua	tivo			la 1 for		23.0	Voc
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	2.	Ma	jor	Eval	uative						None	Yes

			breakdowns and neither of them should be of repetitive nature.		
		– – – –			
3.	Minor	Evaluative	There are not more than 5 minor	None	Yes
			defects during the test and neither		
			of them should of repetitive nature.		
			In no case, the total number of	None	Yes
4.	Total	Evaluative	breakdowns should exceed five		
	breakdowns		that is, (2 major + 3 minor) or (1		
			major + 4 minor) or 5 minor		
			breakdowns.		

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THIS TEST REPORT IS VALID UPTO: 30/06/2029

6.3	Conformity with following IS:		
i)	Guidelines for declaration of power and specific fuel consumption and labeling of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)]	:	Conforms
ii)	Agricultural tractors – Rear mounted power take-off - Types 1, 2 and 3 (third revision) [IS:4931-1995 (Reaffirmed Year 2019)]	:	Conforms
iii)	Agricultural wheeled tractors – Rear mounted three-point linkage: Categories 1N,1, 2N, 2, 3N, 3, 4N & 4 [IS:17231-2019]	:	Does not conform
iv)	Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year 2022)]	:	Conforms
v)	Agricultural tractors- Operator's seat technical requirement [IS12343 – 2021]	:	Does not conform
vi)	Guide for safety & comfort of operator of agricultural tractors:Part 1 General requirements (first revision):[IS 12239 (Part 1) – 2018]	:	Does not conform
vii)	Tractors and machinery for agriculture and forestry – Technical means for ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) (Reaffirmed Year 2019)]	:	Does not conform
viii)	Guide lines for location and operation of operator controls on agricultural tractors and machinery [IS: 8133 – 2021]	:	Conforms
ix)	Tractors and machinery for agriculture and forestry, powered lawn and garden equipment – Symbols for operator controls and other displays Part2 Symbols for agricultural tractors and machinery [IS: 6283(Part-1) – 2006 (Reaffirmed Year 2019) and IS: 6283 (Part-2) – 2007 (Reaffirmed Year 2019)]	:	Conforms
x)		:	Conforms

6.4 Salient Observations:

6.4.1 Laboratory tests:

6.4.1.1 Dimensions of three point linkage:

The following parameters does not meet the requirements of IS: 17231-2019 and needs to be looked into for necessary corrective actions:

- i) Diameter of upper hitch pin hole has been measured as 25.70 mm against the requirement of 19.30 to 19.50 mm.
- ii) Width of upper hitch point ball has been measured as 51.0 mm against the requirement of 43.5 to 44.0 mm.
- iii) Diameter of lower hitch pin hole has been measured as 28.70 mm against the requirement of 22.40 to 22.65 mm.
- iv) Width of ball of hitch point has been measured as 44.9 mm against the requirement of 34.5 to 35.0 mm.

6.4.1.2 Operator's seat :

The following parameters do not meet the requirement of IS: 12343-2021.

- i) Vertical distance from SIP to centre of accelerator pedal has been measured as 495 mm against the requirement of 230 to 460 mm.
- ii) Vertical distance from SIP to foot rest has been measured as 630 mm against the requirement of 450 to 520 mm.

Therefore, all of the above should be looked into for necessary corrective action.

6.4.1.3 Operator's work place:

Spark arresting device has not been provided in the exhaust system as per the requirement of IS: 12239 (Part-I) -2018.

6.4.1.4 PTO master shield:

PTO master shield has not been provided on tractor. This should be looked into for necessary corrective action.

6.5 Maintenance / Service Problems:

No noticeable maintenance or service problem was observed during the test.

T-1858/2389/2024		EICHER, EICHER 333 V3 - INITIAL COMMERCIAL TEST
		THIS TEST REPORT IS VALID UPTO: 30/06/2029
6.5		e / Service Problems:

No noticeable maintenance or service problem was observed during the test.

6.6 Recommendation with regard to safety on tractor:

- i) The hand accelerator lever, when moved away from the operator (i.e. forward) decreases the engine speed, which does not meet the requirement as laid down in Table 1 of IS: 8133-2021.
- ii) The working clearance between position control lever & draft control lever have been measured as 65 mm against the minimum requirement of 70 mm as per the requirement of IS: 12239 (Part II) – 2019.

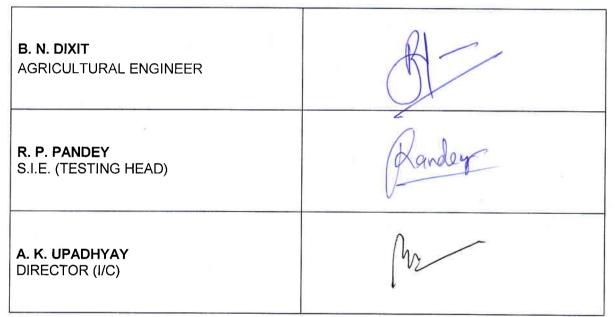
Above parameters should be looked into for necessary corrective action.

6.7 Adequacy of Literature supplied with machine:

The following literatures were supplied with the test tractor for reference during the test: -

- a) Operator Manual for "EICHER 333 V3" tractor model.
- b) Part Catalogue for "EICHER 333 V3" tractor model.
- c) Service Manual for "EICHER 333 V3" tractor model.

TEST CARRIED OUT AT C.F.M.T. & T.I., BUDNI (M.P.), INDIA TESTING AUTHORITY



Draft Test Report compiled by Partha Lodh, Senior Technical Assistant.

7. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant comments	
7.1	6.4.1.1 (i, ii, iii, iv, & v), 6.4.1.2 (l, ii), 6.4.1.3, 6.4.1.4 & 6.6 (i, ii)	Observation will be studied & necessary action will be initiated.	

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ANNEXURE - I

TRACTOR RUN HOURS DURING TEST

Α.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared it to be
		conducted on their work place.
2.	PTO performance test	12.0
3.	Power lift and hydraulic pump performance test	6.7
4.	Drawbar performance test	3.4
5.	Brake performance test	1.3
6.	Nominal speed test	0.8
В.	Miscellaneous test and other run hours including	0.9
	idle run, transportation, trials and preparation for	
	test	
	TOTAL:	25.1

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