व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) COMMERCIAL TEST REPORT (Initial) संख्या / No. : T-1668/2199/2022

माह / Month : July, 2022

[ONLINE TESTING]

(यह परीक्षण रिपोर्ट 31/07/2025 तक वैध है | / THIS TEST REPORT IS VALID UPTO : 31/07/2025)



TAFE, MF 7235 DI TRACTOR



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

(An ISO 9001: 2015 Certified Institute)

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TAFE, MF 7235 DI TRACTOR – Commercial (Initial) THIS TEST REPORT IS VALID UPTO: --/--/2025

Manufacturer

M/s. Tractor and Farm Equipment Limited, Post Box No. 3302, Old-35 (New- 77), Mahatma Gandhi Road, Nungambakkam, Chennai - 600 034 (Tamil Nadu)

Location of other manufacturing plants (apa)

- M/s. Tractor and Farm Equipment (i) Limited, Kalladipatti Plant, 10/205, Kalladipatti (P.O.), Pin code-624201, Dindigul district, (Tamil Nadu)
- (ii) M/s. Tractor and Farm Equipment Limited, Doddaballapur plant, Plot No. 1, Kiadb Industrial Estate, Doddaballapur, Bangalore - 561203
- (iii) M/s. Tafe Motors and Tractor Limited, Plot No. 1, Sector - D, Industrial Area, Mandideep - 462046 Dist. - Raisen (M. P.)

Test requested by (applicant)

The manufacturer Selected for test by The Testing Authority

At Institute Place of running-in

Duration of said running-in, (h):

- Engine 12 - Transmission

Method of Selection The test sample was selected randomly out of five tractors from the production

line by the representative of testing

authority through online.

Details of t random selec	ractors made available for ction					
Sr. No.	Chassis serial Number					
1	MEA11A3AKM2395821					
2	MEA11A3AKM2395822					
3	MEA11A3AKM2395823					
4	MEA11A3AKM2395824					
5	MEA11A3AKM2395770					

1. SPECIFICATIONS

1.1 Tractor:

> Make **TAFE** Model MF 7235 DI Brand name None Variants, if any None

Type Rear Wheel Drive, Standard Agricultural

Tractor.

Month & Year of manufacture 10/21

Chassis number MEA11A3AKM2395824

Country of origin India

1.2 Engine:

> Manufacturer"s address : M/s. Simpsons & Co. Ltd., Huzur Garden,

Sembiam, Chennai- 600011

Simpson & Co. Ltd. Make Model T III A S334-F5.2

Type Four stroke, natural aspirated, water

cooled, direct injection, diesel engine

Serial number S334 18084

Year of manufacture 2021

18. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

18.1 On the basis of tests conducted the performance results have been summarized as evaluative (mandatory) / Non-evaluation (Non-mandatory) parameter applicable for qualifying Minimum Performance criteria as per Clause-4 (Table-1) of Indian standard: 12207-2019 for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

SI. No.	Ch	naracteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	Values declared by the applicant(D)/ Requirement (R)	As observed	Whether meets the require- ments (Yes/No)
1		2	3	4	5	6	7
18.1.1	PTO	Performance				T	
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)		Evaluative	Declared value to be achieved with a tolerance of ± 5 % for PTO power and or Engine power >26 kW ± 10 % for PTO power and or engine ≤ 26 kW	22.0 (D)	21.8	Yes
b)	engii (kW))	Non Evaluative	-do-	22.0 (D)	21.5	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)		Evaluative	+10 percent Max.	265 (D)	249	Yes
d)	Maximum equivalent crankshaft torque, (Nm)		Non Evaluative	± 8 percent	138 (D)	125.9	Yes
e)	perc		Evaluative	12 percent	12 (D) 12 (R) Minimum	22.8	Yes
f)	Max	imum operati	ing tempera	iture, (^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 high ambient condition should not exceed the declaration.	132 (D)	112	Yes
	2) Coolant (water)		Evaluative	The declared value should not exceed the boiling temperature of coolant under the pressurized or otherwise and the observed value under high ambient condition should not exceed the declaration.	112 (D)	93	Yes
g)	Engine oil consumption, (g/kWh)		Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.52	0.55	Yes
h)	Smo	ke level	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR)	metre (Maximum)	0.16	Yes

1	2		3	4	5	6	7
18.1.2	Drawbar	perform	ance :		•		
a)	Maximum of pull with correspond 15 percen slip, (kN)	ballast ling to	Non Evaluative	Minimum 70 percent of static mass with ballast	15.50 (D) 15.38 (R) (Minimum)	17.81	Yes
b)		standard as the ay be ling to t wheel percent	Evaluative	Minimum 70 percent of static mass of tractor without ballast or with standard ballast, as the case may be	12.00 (D) 12.08 (R) (Minimum)	13.85	Yes
c)		power tandard is the ay be,	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.	18.0 (D) 17.4 (R) (Minimum)	17.9	Yes
d)	Max. transmissi temperatu	re (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	132 (D)	83	Yes
18.1.3				performance :			
a)				hout the range of lift, (, '	10.10	
	1) At poin	hitch ts	Evaluative	[Tolerance of ± 10%]	11.00 (D)	10.49	Yes
	2) With	the dard	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.	6.0 (D) 5.13 (R) (Minimum)	8.52	Yes
b)	Maximum the height point application force after min. interv total duration min/ mm	of the of of the each 5 al for a on of 30	Non Evaluative	The observed value should not exceed 50 mm.	50 (D) 50 (R) (Maximum)	00	Yes
18.1.4			ce at 25 kmp				
a)	Maximum with stand			a force, equal to or le	ss than 600 N	on brak	ke pedal
	1) Cold	lard balla I brake brake	Evaluative Evaluative	10	10 (R) 10 (R)	6.94 7.16	Yes Yes
b)	Maximum exerted of	force on the dal to a	Evaluative	600	600 (R)	164 to 211	Yes

1		2	3	4	5	6	7
c)	Whe	ther parking					
		e is effective					
		force of 600	Evaluative	Yes / No	Yes (R)	Yes	Yes
	N.	at foot					
		al(s) or 400					
18.1.5		hand lever se measureme	ant ·				
a)		imum ambient	Evaluative	88 dB(A) for			
۵,	-	e emitted by		>1.5 tonne			
	the	tractor at		GVW and 85	88 (R)	81	Yes
		anders		dB(A) for <1.5 tonne GVW (as	,		
	posit	tion, dB(A)		per CMVR)			
b)		mum noise at	Evaluative	As per			
		ator's ear		CMVR	96 (R)	93	Yes
18.1.6		dB(A) olitude of med	haniaal vihr	ations at :			
10.1.0	1)	Left foot rest	Jilailicai VIDI	auviis at .		106	No
	2)	Right foot rest				101	No
	3)	Seat (with	Non	100 microns	100 (D)	64	Yes
		driver seated)	Evaluative	(max)	100 (D)		
	4)	Steering				230	No
18.1.7	Air	Wheel cleaner oil pu	ll over :				
10.1.7		imum air	ii over .			<u> </u>	
		ner oil pull	Evaluative	0.25 %	0.25	0.13	Yes
	over	· (%)		(max.)	5.25		
18.1.8		lage requirem					
a)		ss mass of the		es):	4.0 (D)	1.0	1/
	- I W	o wheel	Non Evaluative		4.0 (D)	4.0	Yes
b)	Dista	ance travelled /		nsumption, (km/l):		1
		o wheel	Non		4.5 to 7.5 (D)	6.67 to 7.01	Yes
			Evaluative		,		
c)		consumption (T	T	1
	-Two	o wheel	Non		25 to 30 (D)	35.66 to 37.48	No
18.1.9	\A/^4	land cultivation	Evaluative				<u> </u>
10.1.3	Seal			The identified	The	The	
	follov	wing	Lvaldative	assemblies	manufacturer	manufacturer	
		mblies:	al a	should essentially meet	has	has recommended	
	1)	Clutch assembly	-do-	the requirement of IS: 11082	recommended	that the tractor	
	3/	Brake	-do-	No water	that the tractor is not suitable	is not suitable	
	2)	housings	-40-	ingress in the identified	for wetland	for wetland cultivation	NI - 1
	3)	Front axle	-do-	assembly given	cultivation	(puddling	Not appli-
		hubs		in column - 2. If tractor does not	(puddling	operation) and	cable
	4)	Engine oil	-do-	meet the	operation).	therefore, the wetland	
	5)	Transmission	-do-	requirements of wetland		cultivation	
		oil		cultivation, it		(puddling	
				may be recommended		operation) test	
				for dry land		was not	
				operation only		conducted.	

1		2	3	4	5	6	7
18.1.10	Safe	ety features:					
a)	Gua mov parts	ing and hot	Evaluative	Belt drives, pullies, silencer, hydraulic pipes (As per IS 12239 (Part-2)	-	Meets the requirement	Yes
b)	Ligh ^a	ting ngement	Evaluative	As per CMVR	1	Meets the requirement	Yes
c)	(Tra	irements ctors having e than 1150 rear track	Non Evaluative	Should meet the requirements of IS: 12343-2021	-	Does not meet the requirement	No
d)	requ	nnical irements for shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	1	Meets the requirement	Yes
е)	Dimensions of three point linkage		Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)	-	Does not meet the requirement	No
f)	Specifications of linkage drawbar		Evaluative	Should meet the requirements of IS:12953-1990	-	Meets the requirement	Yes
g)		nging drawbar erever fitted)	Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)		Not fitted	Not appli- cable
h)		Maximum travelling speed at rated engine speed in reverse gears, Kmph	Evaluative	Should not exceed 20 Kmph	1	11.24 kmph (Meets the requirement)	Yes
		Audible warning signal on tractor	Evaluative	As soon as the travelling speed in reverse gear reaches to 20 kmph, an audible warning signal on tractor shall be activated. The safety aspects about the operation of shuttle technology shall be brought in operation and manufacturer/dealer shall ensure the training on this aspect to operator before the delivery of tractor.		Not applicable	Not appli- cable

1		2	3	4	5	6	7
18.1.11	Lab	elling of tractors	(Provision				
	1)	Make	Evaluative		conform to	TAFE	Yes
	2)	Model	Evaluative		irements of	MF 7235 DI	Yes
	3)	Month & Year	Evaluative	CMVR	along-with	10/21	
		of		maximur	_		Yes
		manufacture			n kW and manufacture		
	4)	Engine number	Evaluative	in n <u>ume</u> i	ical form	S33418084	Yes
	5)	Chassis	Evaluative	MM Divit 04		MEA11A3AKM23	
	- /	number		Digit 01 No.1 fc		95824	Yes
	6)	Declaration	Evaluative	represen	t the	22.0	
	,	of PTO power, kW		digits in	& next two box No.2 for		Yes
	7)	Specific fuel	Evaluative		epresent the	265	
	Í	consumption ,g/kWh		year manufac	of turing.		Yes
18.1.12	Die	card limit for:		<u> </u>			
(a)		nder bore	Evaluative	To be			
(α)	-	meter, (mm)	Lvaldative	specified	89.925	88.931 to 88.948	Yes
(b)	Clea	arance between	Non	by	0.05		
		on & cylinder	Evaluative	Manufac	0.25 With new ring	0.110 to 0.124	Yes
		r at skirt, (mm)		-turer			
(c)		on diameter at	Non		Piston is discard when	88.824 to 88.512	Yes
	skir	t, mm	Evaluative		the ring grove		
					clearance		
					exceed 0.25		
(d)	Rin	g end gap (mm):		1	with new ring		
(4)	-	Top comp. ring.		-do-	1.50	0.25 to 0.30	Yes
	_	2 nd comp. ring.	Evaluative	-do-	1.50	0.30 to 0.35	Yes
	_	Oil ring.	Lvaldalivo	-do-	1.32	0.25 to 0.35	Yes
(e)	Rin	g groove clearar	ice (mm):		1.02	0.20 to 0.00	
` ′	-	Top comp. ring.	Evaluative	-do-	0.25	0.072 to 0.081	Yes
	-	2 nd comp. ring.	-do-	-do-	0.25	0.060 to 0.064	Yes
	-	Oil ring.	-do-	-do-	0.25	0.051 to 0.052	Yes
(f)	Cle	arance of main b	earings, (mı	m):			
	-	Diametrical	Evaluative	-do-	0.25	0.098 to 0.138	Yes
	-	Crank shaft	Evaluative	-do-	0.50	0.15	Yes
		end float			3.00	0.10	. 00
(g)	Cle	arance of big end			0.05	0.0074 0.404	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	-	Diametrical	Evaluative	-do-	0.25	0.097 to 0.164	Yes
/b\	-	Axial	Evaluative	-do-	0.75	0.25 to 0.30	Yes
(h)		arance between	Non			0.000 / 0.1=0	
	king		Evaluative	-do- 0.50		0.083 to 0.152	Yes
		n,(mm)					
(i)		arance between					
	cent	•	Non	-do-	1.25	0.131 to 0.191	Yes
	bush	n,(mm)	Evaluative		5	3	. 00

1	2	3	4	5	6	7
18.1.13	Literature (Submission to test agency):					
(a)	Operator manual	Evaluative	The printed literature in booklet form should be provided	Provided / Not Provided	Provided	Yes
(b)	Parts Catalogue	Evaluative	as per IS 8132 & should submit along	Provided / Not Provided	Provided	Yes
(c)	Workshop/ Service manual	Evaluative	with the test sample	Provided / Not Provided	Provided	Yes
18.1.14	Fitment of Roll Over Protective Structure (ROPS): for tractors having more than 1150 mm rear track width		ROPS should meet the requirement of IS:11821 or OECD code or equivalent International Standard	Not provided	Not fitted	Not appli- cable
18.1.15	Standard accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Provided	Yes
18.1.16	Accessories (Optional)	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR.	Provided	Provided	Yes

18.2	CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):								
S. No.	Category of Breakdown	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the requirement (Yes/No.)				
1.	Critical breakdown	Evaluative	There is no 'critical breakdown' during the course of testing.	None	Yes				
2.	Major breakdowns	Evaluative	There are not more than 02 major breakdowns and neither of them is of repetitive nature.	None	Yes				
3.	Minor breakdowns	Evaluative	Not more than five and frequency of each should not be more than two.	None	Yes				
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed five, that is, (2 major + 3 minor) or 5 minor breakdowns.	None	Yes				

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18.3 Conformity with following IS:

 Guide lines for declaration of power and specific fuel: Conforms consumption and labelling of agricultural tractors (First revision) [IS10273: 1987 (Reaffirmed in January, 2019)]

ii) Agricultural tractors - Rear mounted power take-off - Types 1, : Conforms 2 and 3 (third revision) [IS:4931-1995 (Reaffirmed in January, 2019)]

Agricultural wheeled tractors - Rear mounted three-pointlinkage: : Does not Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS 4468(Part-I):1997/ISO 730-1:1994 (Reaffirmed in 2017)]

iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 : Conforms (Reaffirmed October, 2017)]

v) Agricultural tractors - Operator's seat technical requirement (IS : Does not 12343 –2021) conform

vi) Guide for safety & comfort of operator of agricultural tractors: : Does not Part 1 General requirements (first revision): [IS 12239 (PT-1) - conform 2018 /ISO 4254-1:2018]

vii) Tractors and machinery for agriculture and forestry –Technical: Does not means for ensuring safety Part 2: Tractors (first revision) [(IS conform 12239 (PT-2) 1999) (Reaffirmed in January, 2019)]

viii) Guide lines for location and operation of operator controls on agricultural tractors and machinery (first revision) IS: 8133- 2021 conform

Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part 2 Symbols for agricultural tractors and machinery [IS:6283 (Part-1)- 2006 and IS: 6283 (Part-2)- 2007 (Reaffirmed in January, 2019)]

x) Agricultural Tractors and Machinery - Lighting device for travel : Conforms on public roads [(IS: 14683-1999) (Reaffirmed in January, 2019)]

18.4 Salient Observations:

18.4.1 Laboratory tests:

18.4.1.1 Hydraulic Performance:

The maximum tilt angle of mast from vertical over the full range of lift was observed as **8.3** degrees against the minimum requirement of 10 degree as per IS: 12224-1987. This should be looked into for necessary corrective action.

18.4.1.2 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies marked as (*) in Chapter-10 of this test report is on higher side especially at especially on the left and right foot rest and steering wheel. This calls for dampening down of vibrations to improve the operational comfort and service life of components.

18.4.1.3 Three point linkage:

- (i) The lateral distance from lower hitch point to centre line of the tractor of three point linkage does not meet the requirement of IS: 4468 (Part-I): 1997 (Re-affirmed in October, 2017). This should be looked into for necessary corrective action.
- (ii) The distance from end of power take-off to centre of lower hitch point (lower links in horizontal position) does not meet the requirement of IS: 4468 (Part-I): 1997 (Re-affirmed in October, 2017). This should be looked into for necessary corrective action.
- (iii) Some of the parameters of three point linkages conform to Cat. I and some of them conform to Cat. II. Keeping in view the spirit of standardization, necessary improvements may be incorporated.

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18.4.1.4 Operator's Seat:

- (i) Vertical distance from seat index point to the centre of accelerator pedal has been measured as 545 mm, against the requirement of 230 to 460 mm.
- (ii) Vertical distance from seat index point to the centre of steering control wheel has been measured as 185 mm, against the requirement of 265 to 385 mm.
- (iii) Vertical distance of seat index point from foot rest has been measured as 600 mm, against the requirement of 450 to 520 mm.

Above parameters does not meet the requirement of IS: 12343-2021. This should be looked into for necessary corrective action.

18.4.1.5 Operator's work place:

Operator's work place meets the requirements of IS: 12239 (Part-I) 1996 (Reaffirmed Oct., 2017), except the following:

- (i) Width of foot step.
- (ii) Provision of spark arresting device in the exhaust system.

Above parameters does not meet the requirement of IS: 12239 (Part-I) 1996 (Reaffirmed Oct., 2017). This should be looked into for necessary corrective action.

18.4.1.6 Constructional requirement with regard to safety:

Meets the requirements of IS: 12239 (Part-II)-1996 (Re-affirmed in January, 2019), except the following:

- (i) Differential lock has not been provided.
- (ii) Master shield around the PTO shaft has not been provided.
- (iii) The working clearance around mudguard (RHS) & parking hand lever has been measured as 40 mm against the minimum requirement of 70 mm.

Above parameters does not meet the requirement of IS: 12239 (Part-II)-1996 (Reaffirmed in January, 2019). This should be looked into for necessary corrective action.

18.4.1.7 Symbols for operator controls and displays:

Oil lubricant type & frequency are not identifiable with the symbols as per IS: 6283 (Part-1 & 2) -2006 & 2007 (re-affirmed in March, 2014). This should be pay attention for improvement as per relevant test code.

18.4.1.8 PTO master shield:

PTO master shield not provided on tractor as per the requirements of IS: 4931-1995 (Reaffirmed in 2004). This should be looked into for necessary corrective action.

18.4.2 Field performance test:

18.4.2.1 Wet land cultivation (Puddling Operation):

The manufacturer has recommended that the tractor is not suitable for wetland cultivation (puddling operation) and therefore, the wetland cultivation (puddling operation) was not conducted. It is recommended that this fact that the tractor is not suitable for wetland (puddling) operation should be mentioned clearly & boldly in all the relevant literature of the tractor & also a cautionary notice regarding non-suitability of tractor for puddling operation may be displayed on the bonnet of the tractor.

18.4.2.2 Haulage performance:

The specific fuel consumption in case of two wheel trailer was recorded as 35.66 to 37.48 ml/km/tonne, against the declaration of 25 to 30 ml/km/tonne. The observed value was on higher side and does not meet the non - evaluative requirement of IS: 12207-2019 with regard to tolerance. This should be looked into for necessary corrective action.

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18.5 Component/ assembly inspection:

During final wear assessment of brake system following observation as under:

- The brake lining material of LHS disc no.-1 on one side was found worn out completely up to oil groove.
- ii) The discard limit for overall thickness & depth of oil groove has been specified as "up to rivet head" vide application sheet. Whereas, rivets are not provided on brake disc.
- iii) The initial thickness of brake lining has been specified as "12.4 to 12.7 mm" vide application sheet. However thickness of brake lining was recorded as 3.64 to 4.15 mm only.

Above observation should be looked into for necessary corrective action.

18.6 Maintenance / Service Problems:

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

18.7 Recommendation with regard to safety on tractor:

The following requirements, inter alia, may be considered for incorporation on the tractor:

- (i) Provision of spark arrester in the exhaust system of tractor's engine as per IS: 12239 (Part-I) 2018.
- (ii) Fuel shut-off knob does not remain in "STOP" position as per requirement of IS: 8133-2021.
- (iii) Width of foot step does not meet the requirement of IS: 12239 (Part-1)-2018. This should be provided as per the above referred standards.
- (iv) The working clearance between mudguard (RHS) & parking hand lever should be provided as per the requirement of IS: 12239 (Part-2) - 1999, (Reaffirmed in January, 2019).
- (v) There should be provision of differential lock.
- (vi) Master shield on PTO shaft should be provided.

18.8 Adequacy of Literature supplied with machine:

- 18.8.1 The following literature was supplied with the tractor for reference during the testing.
 - Operator Instruction book of "TAFE, MF 7235 DI" Tractor model.
 - (ii) Service manual of "TAFE, MF 7235 DI" Tractor model.
 - (iii) Parts Catalogue of "TAFE, MF 7235 DI" Tractor model.
- 18.8.2 The operator manual may be brought out for the guidance of users and service personnel as per IS:8132-1999 incorporating, inter alia, the following:
 - Coolant water ratio.
 - (ii) Safe hitch height while using trailer.
 - (iii) Discard limit of all components.

TESTING AUTHORITY:

C.V. CHIMOTE
TEST ENGINEER

P. K. PANDEY
DIRECTOR

Draft test report is compiled by: Pramod Yadav, Agricultural Engineer.