व्यावसायिक परीक्षण रिपोर्ट (वैरिएंट) संख्या/No. : T-1675/2206/2022

COMMERCIAL TEST REPORT (Variant) माह/Month : September, 2022

[ONLINE TESTING]

(यहपरीक्षण रिपोर्ट 30/09/2025 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/09/2025)



DEUTZ FAHR, AGROMAXX 4050E 2WD 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

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BACKGROUND 1.

- The DEUTZ FAHR, AGROMAXX 4050E tractor had undergone "Initial Commercial Test" 1. at this Institute vide Test Report No. T-1653/2184/2022 (released in June, 2022).
- 2. On 27.06.2022, when the tractor viz. DEUTZ FAHR, AGROMAXX 4050E 2WD tractor submitted for variant test, was still in the Institute's campus only, the applicant came to apply for variant test, DEUTZ FAHR, AGROMAXX 4050E 2WD tractor as the variant of DEUTZ FAHR, AGROMAXX 4050E. The applicant was allowed for conversion from 4WD to 2WD on the same tractor lying in the campus of Institute. There is, therefore, no need to conduct those tests as are required for conformity of sample as being the same as tested earlier. However, for complete information on performance of this tractor, Test Report No. T-1653/2184/2022 is a necessary adjunct to this report.
- After examination of the documents, only following tests were required to be conducted 3. as laid down in IS: 12207-2019.
 - 1. Specification checking of variant feature i.e. 2WD
 - 2. Drawbar performance test

2. SPEIFICATIONS CHECKING OF VARIANT FEATURE

S.No.	Parameter		Base Model	Variant Model	<u>Remarks</u>
1	2		3	4	5
2.1.1	Tractor:				
	Make	:	Deutz Fahr	Deutz Fahr	No Change
	Model	:	Agromaxx 4050E	Agromaxx 4050E 2WD	Changed
	Type	:	Four-wheel	Rear Wheel	Changed
			Driven, Standard Agricultural Tractor	Drive, Standard Agricultural Tractor	
	Month & Year of manufacture	:	08 / 21	08 / 21	No Change
	Chassis number	:	M1TFP32RDHG0 00572	M1TFP31RDH G000572	Changed
	Country of Origin	:	India	India	No Change
2.1.2	Front differential unit:				
	Туре	:	Crown wheel and bevel pinion with differential unit accommodated inside the centre of front axle housing	Not applicable	Changed
	Reduction through crown wheel & bevel pinion	:	3.273: 1 (36/11T)	Not applicable	Changed
	Oil capacity, (I)	:	5.50 (Common with front axle housing)	Not applicable	Changed
	Oil changing period	:	After every 1000 hours of operation.	Not applicable	Changed
2.1.2.1	Front differential lock	:	Not Provided	Not applicable	No Change

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1	2	3	4	5	6
17.	Other	changes:			
	a)	Tractor Model	AGROMAXX 4050E	AGROMAXX	Changed
				4050E 2WD	
	(b)	Steered Wheel(s):			
		Size	8.0 -18	6.00 – 16	Changed
		Ply rating	4	8	Changed
		Make & size of rim	WILP & W6 x 18	WIL & 4.5E x 16	Changed
		Track width, (mm)	1175,1195,1325(std.),	1240 (std.) &	Changed
			1415,1455,1515 & 1535	1440	
	(c)	Mass unballast tractor,	850/1245/2095	710/1250/1960	Changed
		[Front/Rear/Total], (kg)			
	(d)	Overall dimensions, (mm	1)		
		-Length	3525	3525	No Changed
		-Width	1865	1865	No Changed
		-Height	2220	2230	Changed
	-Ground clearances		375 (below front axle	415 (below	Changed
			tie rod)	transmission	
				drain plug)	
	(e)	Wheel base, (mm)	1950	1920	Changed

6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

6.1 On the basis of tests conducted the performance results have been summarized as evaluative (mandatory) and non-evaluation (not-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:-

SI. No.	Characteristic	Category (Evaluative /Non- Evaluative)	Requirements as per IS: 12207- 2019	Value declare the appropries that the appropries to the approximate to the appropries to the approximate to the app	ed by olicant/	As observed		the	
				Base model	Variant Model		Variant model	require- ments (Yes/No.	
1	2	3	4	5 a	5 b	6 a	6 b	7	
6.1.1	Drawbar perform	nance:							
a)	Maximum drawbar pull with unballast	Evaluative	Minimum 70% of static mass of tractor without /	14.28 (D)	13.6 (D)	10.00	10 17	Voo	
	corresponding to 15 percent wheel slip, (kN)		standard ballast	14.38 Minimum (R)	13.45 Minimum (R)	19.98	18.17	Yes	
b)	Maximum drawbar power without ballast, or with standard ballast as the case may be, 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.	25.95 (D) 25.1 Minimum (R)	25.95 (D) 25.1 Minimum (R)	27.4	27.6	Yes	

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1		2		3	4	5 a	5 b	6 a	6 b	7
c)	Ма	ximum		Evaluative	The declared value should					
		nsmission	oil		not exceed the maximum value specified by oil	120	120	81	78	Yes
	ten	nperature (°C)		company.	(D)	(D)			
6.1.2	0 1 7									
_	1)	Make		Evaluative	Should conform to the	DEUTZ-FAHR			Yes	
	2)	Model		Evaluative	requirements of CMVR	AG	ROMAX)50 E	Yes
_					along with maximum PTO Power in kW and		2V			
	3)	Month & Ye		Evaluative	year of manufacture in		08	/21		Yes
-	4)	of manufact Engine num		Evaluative	numerical form.	2	AD222	651L	121	Yes
-	5)	Chassis	inei	Evaluative	MM YY		P31RE			Yes
	3)	number		Evaluative		IVIII	FOIRL	JIIGU	00372	165
-	6)	Declaration	of	Evaluative	Digit 01 – 12 in box No.1		32	.4		Yes
	,	PTO power,			for MM will represent					
-		(kW)			the months and next					
		Specific fuel		Evaluative	two digits in box No.2		27	0		Yes
		consumption (g/kWh)	,		for YY will represent the					
6.1.3		erature (Sub	mie	sion to tost	year of Manufacturing.					
(a)		erator manua		Evaluative	Provided/	Provided Prov		ovided	Yes	
(/	- 1				Not Provided					
(b)		rts Catalogue		Evaluative	Provided/Not Provided				ovided	Yes
(c)		orkshop/Servi	се	Evaluative	Provided/Not Provided	Prov	Provided I		ovided	Yes
6.1.4		nual	0,46	r Drotootive	Structures (ROPS):					
6.1.4	For				ROPS should meet the	N	lot	Not	fitted	Not
	mo	re than 1150		Lvaidativo	requirement of IS: 1182 or	Provided		1100	nttou	App-
	rea	r track width			OECD code or equivalent International Standard.					licable
6.1.5	Sta	andard		Evaluative	Trailer hitch, front tow hook,	Prov	vided	Pro	vided	Yes
	Ac	cessories			linkage drawbar should be provided with tractor.					
6.1.6	Ac	cessories		Non	Ballast weight, if fitted, should	N	lot	١	Not	Not
	(op	otional)		Evaluative	meet the requirement of CMVR.	Prov	vided	Pro	vided	App-
0.0		TEOODY OF I	205	ALCDOMANO /						licable
6.2		TEGORY OF I	SKEA	Category			As	Ι,	Whether	meets
SI.		Category of creakdowns		aluative / Non	Requirements as per IS: 12207-2019	.	observ		e Requi	rements
No. 1.		Critical		Evaluative) Evaluative	No critical breakdown.	(163		(Yes/		
2.		Major		Evaluative	Not more than two	None Ye				
2.		Major	_	- valuative	neither of them should		140110		10	
					repetitive in nature.					
3.		Minor	Е	valuative	Not more than three		Non	е	Ye	s
					frequency of each should	d not				
4.		Total			be more than two.	mhor None Vee			· e	
7.	br	reakdowns	F	Evaluative		case, the total number None Yes				
	~.		_		exceed five, that is, (2 major					
					+ 3 minor) or 5 minor					
					breakdowns.					

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- 6.3 Adequacy of Literature supplied with machine:
- 6.3.1 The following literature was supplied with test sample for reference during the test.
 - a) Operator Manual of Agromaxx 4045 E, Agromaxx 4050 E, Agromaxx 4055 E & Agromaxx 4060 E tractor models.
 - b) Parts catalogue for "Agromaxx 4045 E" tractor model.
 - c) Workshop service manual of Agromaxx 4045 E & Agromaxx 4050 E tractor models.
- 6.3.2 The operator manual, parts catalogue & workshop service manual may be brought out for the guidance of users and service personnel as per IS:8132-1999 incorporating, inter alia, the following:
 - i) Make & model of tractor.
 - Two wheel drive front axle details & specification.

The results of the tests carried out on variant model "DEUTZ FAHR, AGROMAXX 4050E 2WD" tractor have been compared with those on base model "DEUTZ FAHR, AGROMAXX 4050E" tractor tested vide test report No. T-1653/2184/2022 (June, 2022) & found within the limit as specified in Indian Standard: 12207-2019.

TESTING AUTHORITY:

C.V. CHIMOTE TEST ENGINEER	Munumana
P. K. PANDEY DIRECTOR	U3n- mv8z

Draft test report compiled by: Mrs. Poonam Khurasia, Senior Technical Assistant

7. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
7.1	6.3.2	Suggestion is considered.

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ANNEXURE-I

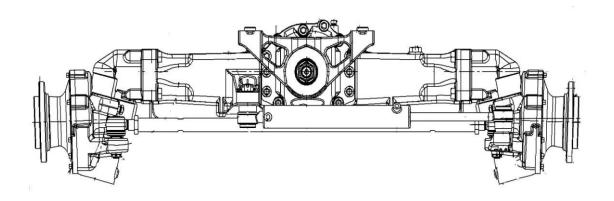
TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS	<u>HOURS</u>			
1.	Drawbar Performance Test	2.00			
B.	B. Miscellaneous test and other run hours, including idle run				
	transportation, trial and preparation for test.				
	Total				

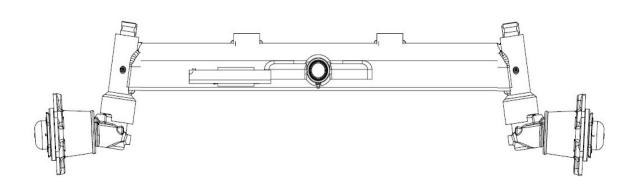
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ANNEXURE-II



FRONT AXLE DESIGN ON BASE MODEL AGROMAXX 4050E



FRONT AXLE DESIGN ON VARIANT MODEL AGROMAXX 4050E 2WD