व्यावसायिक परीक्षण रिपोर्ट (वैरिएंट) संख्या/No. : T-1674/2205/2022 COMMERCIAL TEST REPORT (Variant) माह/Month : September, 2022

[ONLINE TESTING]

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



DEUTZ FAHR, AGROMAXX 4045E 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 AND FARMERS WELFARE) केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान ट्रैक्टर नगर, बुदनी (म.प्र.)—466 445

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1. BACKGROUND

- The DEUTZ FAHR, AGROMAXX 4045E tractor had undergone "Initial Commercial Test" at this Institute vide Test Report No T-1647/2178/2022 (released in May, 2022).
- 2. On 10.06.2022, when the tractor viz DEUTZ FAHR, AGROMAXX 4045E tractor submitted under Initial commercial test, was still in the Institute's campus only, the applicant came to apply for variant test, DEUTZ FAHR, AGROMAXX 4045E 2WD tractor as the variant of DEUTZ FAHR, AGROMAXX 4045E. 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-1647/2178/2022 is a necessary adjunct to this report.
- After examination of the documents, only following tests were required to be conducted 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 Model	:	Deutz Fahr Agromaxx 4045E	Deutz Fahr Agromaxx 4045E 2WD	No Change Changed
	Туре	:	Four-wheel Driven, Standard Agricultural Tractor.	Rear Wheel Drive, Standard Agricultural Tractor.	Changed
	Month & Year of manufacture	:	08 / 21	08 / 21	No Change
	Chassis number	:	M1TFP22RDHG0 00360	M1TFP21RDHG 000360	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)	:	5.80 (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 Available	Not applicable	No Change

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1	2	3	4	5	6	
17.	Other	er changes:				
	a)	Tractor Model	AGROMAXX 4045 E	AGROMAXX 4045 E	Changed	
				2WD		
	(b)	Steered Wheel(s):				
		Size	8.0 -16	6.00 – 16	Changed	
		Ply rating	4	8	Changed	
		Make & size of rim	WILP & W6 x 16	WIL & 4.5E x 16	Changed	
		Track width, (mm)	1340 (std.) & 1410	1235 (std.) & 1425	Changed	
	(c)	Mass unballast tractor,	794/1213/2007	670/1215/1885	Changed	
		[Front/Rear/Total], (kg)				
	(d)	Overall dimensions, (mm)				
		-Length	3475	3475	No change	
		-Width	1885	1885	No change	
		-Height	2180	2200	Changed	
	-Ground clearances		335 (below front	390 (below	Changed	
			axle tie rod)	transmission drain		
			,	plug)		
	(e)	Wheel base, (mm)	1945	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:-

S. No.	Characteristic	Category (Evaluative as per IS: 12207- /Non- 2019 Evaluative)		Value declare the appropried that the appropried to the appropried	ed by olicant/	_	s erved	Whether variant model meets 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 performa	nce:						
a)	Maximum drawbar pull with unballast	Evaluative	Minimum 70% of static mass of tractor without /	13.08 (D)	13.08 (D)	40.00	4= 00	.,
	corresponding to 15 percent wheel slip, (kN)		standard ballast	13.78 Minimum (R)	12.94 minimum (R)	18.26	17.20	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.	23 (D) 22.1 (R) Minimu m	25.3 (D) 24.52 minimum (R)	23.9	23.8	Yes

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1		2	3	4 5a 5b 6a 6b		7			
c)		ximum	Evaluative	The declared value should	120	120			
		nsmission oil		not exceed the maximum value specified by oil	(D)	(D)	89	81	Yes
		nperature (°C)		company.	(-)	(-)			
6.1.2			•	n of labelling plate):		CUTT	· - ^		Vac
	1) 2)	Make Model	Evaluative Evaluative	Should conform to the requirements of CMVR				Yes Yes	
	2)	Model	Evaluative	along with maximum	AGN	2W		45 E	163
	3)	Month & Year	Evaluative	PTO Power in kW and		08 /21		Yes	
	,	of		year of manufacture in					
		manufacture		numerical form.					
	4)	Engine number	Evaluative	MM YY		S3270			Yes
	5)	Chassis number	Evaluative	Digit 01 – 12 in box No.1	M1TFF	P21RD	HG00	0360	Yes
	6)	Declaration	Evaluative	for MM will represent		28	8.8		Yes
		of PTO		the months and next two digits in box No.2					
		power, (kW)		for YY will represent			_		V
		Specific fuel consumption,	Evaluative	the year of		26	5		Yes
		(g/kWh)		Manufacturing.					
6.1.3		erature (Submis	ssion to test	agency):					
(a)		erator manual	Evaluative	Provided/Not Provided	Prov	ided	Prov	/ided	Yes
(b)		rts Catalogue	Evaluative	Provided/Not Provided	Prov	ided	Pro۱	/ided	Yes
(c)		orkshop/Service	Evaluative	Provided/Not Provided	Provided Provided		Yes		
		nual		01 1 (7070)					
6.1.4				Structures (ROPS):	l NI	_1	NI-4	C:LL = -I	NI-4
		r tractor having ore than 1150	Evaluative	ROPS should meet the requirement of IS: 1182	No Prov		NOt	fitted	Not Appli-
	mn			or OECD code or	1100	iucu			cable
	wic	lth		equivalent International Standard.					
6.1.5		andard .	Evaluative	Trailer hitch, front tow	Prov	ided	Prov	/ided	Yes
	Ac	cessories		hook, linkage drawbar should be provided with					
				tractor.					
6.1.6		cessories	Non	Ballast weight, if fitted,	No			ot	Not
	(op	otional)	Evaluative	should meet the requirement of CMVR.	Prov	ided	Prov	/ided	Appli-
6.2	C 4	TEGORY OF BI	DE V K D O WATER						cable
6.2	CA	Category of	Category		Aso	bserve	hd	Wheth	er meets
S. No.		breakdowns	(Evaluative / Non	Requirements as per IS: 12207-2019				t Requi	he ements
1.		Critical	Evaluative) Evaluative	No critical breakdown.	١,	None			s/No.)
2.		Major	Evaluative	Not more than two and		None		Yes Yes	
				neither of them should be repetitive in nature.		10116			
3.		Minor	Evaluative	Not more than three and frequency of each		None		Y	es
				should not be more than two.					
4.	То	tal breakdowns		In no case, the total	1	None		Y	es
			Evaluative	number of breakdowns should 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.
 - ii) Two wheel drive front axle details & specification.

The results of the tests carried out on variant model "DEUTZ FAHR, AGROMAXX 4045E 2WD" tractor have been compared with those on base model "DEUTZ FAHR, AGROMAXX 4045E" tractor tested vide test report No. T-1647/2178/2022 (May, 2022) & found within the limit as specified in Indian Standard: 12207-2019.

TESTING AUTHORITY:

C.V. CHIMOTE
TEST ENGINEER

P. K. PANDEY
DIRECTOR

P. W. PANDEY

Draft test report compiled by: Pratyush Satya, 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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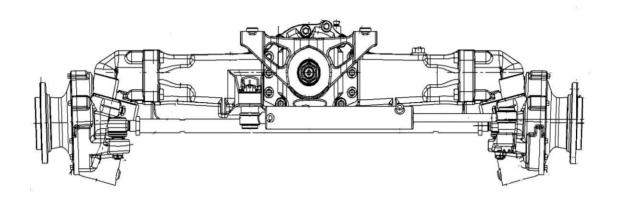
ANNEXURE-I

TRACTOR RUN HOURS DURING TEST

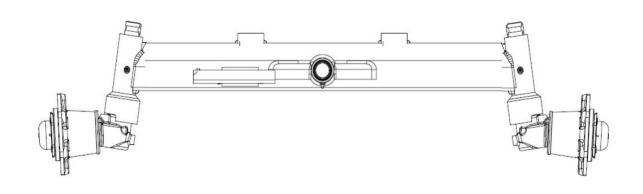
A.	LABORATORY AND TRACK TESTS	<u>HOURS</u>
1.	Drawbar Performance Test	3.6
В.	Miscellaneous test and other run hours, including idle run transportation, trial and preparation for test.	1.0
	Total	

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ANNEXURE-II



FRONT AXLE DESIGN ON BASE MODEL AGROMAXX 4045E



FRONT AXLE DESIGN ON VARIANT MODEL AGROMAXX 4045E 2WD