प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट INITIAL COMMERCIAL TEST REPORT संख्या/No. : T-1901/2432/2024 माह/Month : November, 2024

Application Reference No. 28/2023-24/111

(यह परीक्षण रिपोर्ट 30/11/2029 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/11/2029)



Make of Agricultural Tractor Model Manufactured by

Make of Agricultural Tractor : ESCORTS KUBOTA LIMITED

- : 45 F51 (BRAND NAME FARMTRAC)
- : Escorts Kubota Limited, 15/5, Corporate Centre, Mathura Road, Faridabad- 121003, Haryana, India



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)

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Telephone: 07564-299003

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: November	Test Report No.: T-1901/2432/2024	Year: 2024	



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

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T-1901	/2432/2024			AITED, 45 F51 (BRAND NAME - FARMTRAC) – INITIAL COMMERCIAL TEST
			ST RE	PORT IS VALID UPTO: 30/11/2029
[C] [D]	address		:	Escorts Kubota Limited 15/5, Corporate Centre, Mathura Road, Faridabad- 121003, Haryana, India i) Escorts Kubota Limited, Plot No. 2 & 3, Sector – 13, Faridabad – 121007, Haryana, India ii) Escorts Kubota Limited, 18/4, Mathura
[C]	Submitted f	or test by (Applicant)	:	Road, Faridabad-121007, Haryana, India Escorts Kubota Limited, Knowledge Management Centre, 15/5, Mathura Road, Faridabad- 121003, Haryana, India
[C]	Selected fo	r 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] [D]	Place of rur Duration of -Engine -Transmissi	running-in (h):	:	At manufacturer's works 25 15
[C]	Location of		:	Government of India, Central Farm Machinery Training and Testing Institute, P.O Tractor Nagar, BUDNI – 466445 (M.P.), INDIA
		1. SPECIFIC		IS OF TRACTOR
1.1 1.1.1 [C] [C] [C] [D] 1.1.2	Identification Denominat Make of trad Model (trad Type Month & ye Country of o Numbers:	ion ctor e name) ar of manufacture	:	Escorts Kubota Limited 45 F51 (BRAND NAME - FARMTRAC) Rear Wheel Driven, Standard Agricultural Tractor 12/23 India
[D] [C]	1 st Serial N Serial No.	o. of prototype	:	T052662887JM T052662887JM
1.2 [D] [C] [C]	Engine: Manufacture Make Model	r's address	:	Escorts Kubota Limited, 15/5, Corporate Centre, Mathura Road, Faridabad- 121003, Haryana, India Not available FN3.351A-3A
[C]	Туре		:	Four stroke, naturally aspirated, direct injection liquid cooled, diesel engine
[C] 1.2.1 [D] [D] [D] [D] [D] [D]		re, (mm) m ³ on ratio nt of valves ers nbustion chamber	: : : : : : : : : : : : : : : : : : : :	E2655526 Three / vertical, In-line 106.7 / 131.0 3514 18.0 (±5%) : 1 Vertical Inline, (Overhead) Wet, replaceable Re-entrant
1.2.2	Superchar	ging	:	Not available

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THIS TEST REPORT IS VALID UPTO: 30/11/2029

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:

6	<u> </u>		ncing are summarized as under:	Values		Whathar
S. No.	Characteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	declared by the applicant/ (D) Requirement	As observed	Whether meets the require- ments (Yes/No)
1	2	3	4	(R) 5	6	7
	_	-	Ministry's Office Memorandur	-	-	-
	dated 28th of July, 2 (In the ensuing table as per BIS test code)	2022). , 'D' stands fo	or applicant's declaration, where			
6.1.1	PTO Performance:	I				
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 ≤ 26 kW.	32.3 (D)	30.7	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	32.3 (D)	30.1	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	Should not be more than 10% of declared value	263 (D)	260	Yes
d)	Maximum equivalen crankshaft torque (Nm)		± 8%	226 (D)	206.8	Νο
e)	Back-up torque, percent	Evaluative	Should be minimum 12 percent	12 (D) 12 (R)	34.8	Yes
f)	Maximum operating te				-	
	1) Engine oil	Evaluative	The declared value should not exceed the <i>Max</i> value specified by the oil company and the observed value under natural ambient/high ambient condition should not exceed the declaration	130 (D)	115	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.	118 (D)	102	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	2.60 Maximum (R)	0.44	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 (R)	0.19	Yes

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ESCORTS KUBOTA LIMITED, 45 F51 (BRAND NAME - FARMTRAC) TRACTOR – INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 30/11/2029

transmission oil temperature, (°C) exceed the recommendation by the oil manufacturer. The observed value should not exceed the declared value throughout the drawbar test. * Applicant vide letter no. EKL/Hom/R-142 dated 30.04.2024 has requested not to conduct th ballasted drawbar performance test & ten-hour drawbar test which was allowed as per the addition guidelines for testing of tractors as per new regime of testing of tractors vide an OM Not 13-32/2023-M&T(I&P) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test under unballasted condition was conducted only. 6.1.3 Power lift and hydraulic pump performance: a) Maximum lifting capacity throughout the range of lift, (kN): 1) At hitch points Evaluative Should not be less than 90% of declared value. 14.71 (D) 13.24 (R) Minimum 14.68 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. 12.59 Yes b) Maximum drop in the Non- Non- The observed value should 50 (D) 35 Yes			•	•			•	-
a) Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN) Non- Evaluative by Minimum 70% of static mass of tractor with ballast. * * * * b) Maximum drawbar pull without ballast corresponding to 15% wheel slip, (kN) Evaluative to static mass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1500 kg total static mass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1500 kg total static mass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having statistic mass > 1500 kg Minimum 75% of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having static mass > 1500 kg total static mass of tractors having static mass > 1500 kg total static mass of tractors having static mass > 1500 kg total static mass of tractors having static mass > 1500 kg total static mass of tractors having static mass of tractors which do not have a PTO shaft. 130 (D) 89 Yes d) Maximum transmission oil temperature, (°C) Evaluative transmission oil temperature, (°C) Evaluative static transmission static mass of tractors which do not have a PTO shaft. 130 (D) 89 <	-	Drov	=		4	5	6	1
with corresponding to 15 percent wheel slip, (kN) Evaluative is the mass 2 f500 kg, Min 70% of static mass 2 fields static mass 0 fractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having 2 f500 kg total static mass 0 fractor without ballast or with standard ballast, as the case may be. 15.58 (D) 18.16 Yes c) Maximum drawbar power with unballast, (kW). Evaluative transmission oil temperature, (°C) Evaluative transmission oil temperature, (°C) Minimum 75 % of PTO performance in case of light weight tractors having s1500 kg total static mass of tractor. Minimum 75 % of the engine power as referred in SI No. i) a) of PTO performance in case of tractors which do not having a total static mass of s1500 kg total static mass of s1500 kg total static mass for tractors which do not have a PTO shaft. 130 (D) 89 Yes d) Maximum transmission guidelines for testing of tractors as per new regime of testing of tractors vide an OM No 13-32/2023-MBT(I&P) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test under unballasted oradition was conducted only. 13.0 (D) 89 Yes * Applicant vide letter no. EKLH-formR-r142 dated 30.004.2024 has requested not to conduct th balasted drawbar performance test & ten-hour drawbar test which was allowed as per the addition was conducted only. 14.71 (D) 14.68 Yes a) Maximum lifting capacity throughout the range of li					Minimum 70% of static mass	*	*	*
corresponding to 15 percent wheel slip, (kN) In case of tractors having total static mass ≥ 1500 kg, Min 70% of static mass of tractor without balast or with standard balast, as the case may be. In case of light weight tractors having 5 1500 kg total static mass of tractor without balast or with standard balast, as the case may be. In case of light weight tractors having 5 1500 kg total static mass of tractor without balast or with standard balast, as the case may be. 15.58 (D) 18.16 Yes c) Maximum drawbar power with unballast, (kW). Evaluative treferred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg Minimum 775% of PTO power as referred in SI No. i) a) of PTO performance in case of light weight tractors having s1500 kg total static mass of tractor. Minimum 75% of the engine power as referred in SI No. i) a) of PTO performance in case of tractors which do not tractor. Minimum 75% of the engine power as referred in SI No. i) a) of engine performance in case of tractors which do not exceed the recommendation by the oil manufacturer. The observed value should not staces of tractors view an OM No 13:32/2023-M&T(I&P) (FTS-125476) dated 16:05:2023. Accordingly, drawbar performance test under unbalasted condition was conducted only. 13:0 (D) 89 Yes c1.3 Power lift and hydraulic pump performance: a) Maximum lifting capacity throughout the range of lift, (kN): and this hould be 21.5 kg/engine WW where the tractor is no provided with a PTO shaft. 14.71 (D) 14.68 14.68 Yes b) Maximum drop in the Non- Non- The lift capacity should at least be 24 kg/PTO kW and it should be 21.5 kg/engine WW where the tractor is no	a)							
percent wheel slip, (kN) In case of tractors having total static mass of tractor without ballast or with standard ballast, as the case may be. (kN) 15.58 (D) 18.16 Yes b) Maximum drawbar pull without ballast corresponding to 15% wheel slip, (kN) Evaluative In case of tractors having total static mass of tractor without ballast or with standard ballast, as the case may be. In case of tractor without ballast or with standard ballast, as the case may be. 18.16 Yes c) Maximum drawbar power with unballast, (kW). Evaluative Minimum 80% of PTO power as the regine of tractors having static mass of tractors having static mass of tractors having total static mass of tractor. Minimum 75% of PTO performance in case of light weight tractors having st500 kg total static mass of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of PTO performance in case of light weight tractors having st500 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 tave a PTO shaft. 130 (D) 89 Yes d) Maximum transmission oil temperature, (°C) Evaluative throughout the drawbar test. 130 (D) 89 Yes * Applicant vide letter no. EKL/HorrR-142 dated 30.04.2024 has requested not to conduct th ballasted drawbar performance test 8t en-hour drawbar test. 130 (D) 89 Yes * Applicant vide letter no. EKL/HorrR-142 dated 30.04.2024 has requested not to conduct th bal				Evaluativo				
b) Maximum drawbar pull without ballast corresponding to 15% wheel slip, (kN) Evaluative ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1500 kg total static mass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1500 kg total static mass of tractor without ballast or with standard ballast, as the case may be. 25.84 (D) 24.6 (R) 26.6 Yes c) Maximum drawbar power with unballast, (kW). Evaluative ballast or with standard ballast, as the case may be. referred in SI No. i) a) of PTO performance in case of tractors having total static mass of tractors. 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 tractors. Minimum 75% of the engine power as referred in SI No. i) a) of or gine performance in case of tractors which do not have a PTO shaft. 130 (D) 89 Yes d) Maximum transmission under unballasted drawbar performance test & ten-hour drawbar test. 130 (D) 89 Yes * Applicant vide letter no. EKL/HOm/R-142 dated 30.04.2024 has requested not to conduct the ballasted orawbar performance test & ten-hour drawbar test. 13.71 (D) 14.68 Yes a) Maximum lifting capacity throughout the range of lift, (kN); 1 1 14.71 (D) 14.68 Yes f Applicant vide letter no. Evaluative standard frame Evaluative broulded only. The decla								
pull without ballast corresponding to 15% wheel slip, (kN) static mass 21500 kg. Min 70% of static cass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1500 kg total static mass of tractor, Min. 65% of static mass of tractor, Min. 65% of static mass of tractor without ballast or with standard ballast, as the case may be. 15.45 (R) 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 s1500 kg total static mass > 1500 kg 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. 130 (D) 89 Yes d) Maximum transmission oil temperature, (°C) Evaluative tractors as per new regime of testing of tractors sa per the addition by the oil manufacturer. The observed value should not asceed the declared value throughout the drawbar test. 130 (D) 89 Yes * Applicant vide leter no. EKL/Hom/R-142 dated 30.04.2024 has requested not to conduct the ballasted drawbar performance texceed the leclared value should not asceed condition was conducted only. 13.24 (R) Minimum a) 10 At hitch points Evaluative Evaluative standard frame The lift capacity should at least be 24 kg/PTO kW and it should ho 21.5 kg/enging 80 (D) 12.59 Yes b)		· · ·						
corresponding to 15% wheel slip, (kN) of static mass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1500 kg total static mass of tractor without ballast or with standard ballast, as the case may be. 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 of tractor without ballasts (kW). 26.6 Yes d) Maximum transmission oil temperature, (°C) Evaluative The declared value should not exceed the declared value should not exceed the declared value should not exceed the declared value throughout the drawbar test. 130 (D) 89 Yes * Applicant vide letter no. EKL/Hom/R-142 dated 30.04.2024 has requested not to conduct th ballasted drawbar performance test & ten-hour drawbar test. * Applicant vide letter no. EKL/Hom/R-142 dated 30.04.2024 has requested not to conduct th ballasted drawbar performance test & ten-hour drawbar test which was allowed as per the addition; guidelines for testing of tractors as per new regime of testing of tractors vide an OM No 13-32/2023-MK1(RP) (FTS-152576) dated 16.05.2023. Accordingly, drawbar performance test under unballasted condition was conducted only. 1 14.71 (D) 13.24 (R) Minimum 14.68 Yes of declared value. 2) With the standard frame Evaluative Evaluative The lift capacity should at least be 24 kg/PTO KW and it should be 21.5 kg/engime 8.0 (D) 7.23 (R) Minimum 14.59 Yes <	b)			Evaluative			18.16	Yes
corresponding to (KN) ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1500 kg total static mass of tractor without ballast or with standard ballast, as the case may be. 25.84 (D) 26.6 Yes 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 s11500 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. 130 (D) 89 Yes d) Maximum transmission oil temperature, (°C) Evaluative temperature, (°C) Evaluative throughout the drawbar test. 130 (D) 89 Yes * Applicant vide letter no. EKL/Hom/R-142 dated 30.04.2024 has requested not to conduct th ballasted drawbar performance test & ten-hour drawbar test. 133.24(2), drawbar performance test & toractor. Stractors which was allowed as per the addition guidelines for testing of tractors as per new regime of testing of tractors vide an OM Nt 13.32/2023-MRT(I&P) (FS-152476) foated 16.05.2023. Accordingly, drawbar performance test under unballasted condition was conducted only. 1 At hitch points Evaluative Should not be less than 90% of declared value. 14.71 (D) Minimum 14.68 Yes a) Maximum lifting capacity throughout the range of lift, (KN): 1		•				15.45 (R)		
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c) In Case of ngin Weight decloses in asso of tractor, Min. 65% of static mass of tractor, Min. 65% of static mass of tractor with but ballast or with standard ballast, as the case may be. 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 tractors having total static mass of tractor. Minimum 75% of the engine power as referred in SI No. i) a) of PTO performance in case of tractors which do not have a PTO shaft. d) Maximum transmission oil temperature, (°C) Evaluative The declared value should not exceed the recommendation by the oil manufacturer. The observed value should not as per new regime of testing of tractors as per new regime of testing of tractors as a per new regime of testing of tractors was a profermance test under unballasted condition was conducted only. for Maximum tifting capacity throughout the range of lift, (kN): a) Maximum lifting capacity throughout the range of lift, (kN): a) Maximum lifting capacity throughout the range of lift, (kN): a) Maximum lifting capacity throughout the range of lift, (kN): a) 10 14.71 (D) 14.68 Yes of declared value. a) Maximum lifting capacity throughout the range of lift, (kN): a) 11 At hitch points Evaluative Should not be less than 90% 14.71 (D) 14.68 Yes of declared value. 12.59 Yes b) Maximum drop in the Non- The lif			wheel slip,					
c) Maximum drawbar power with unballast or with standard ballast, as the case may be. 25.84 (D) 26.6 Yes c) Maximum drawbar power with unballast, (kW). Evaluative performance in case of tractors having total static mass of PTO performance in case of tractors. Minimum 75% of PTO performance in case of tractors. Minimum 75% of PTO performance in case of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of PTO performance in case of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of PTO performance in case of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of engine performance in case of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of engine performance in case of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of engine performance in case of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of engine performance in case of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of engine performance in case of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of engine performance in case of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of engine performance in case of tractors. Minimum 75% of the engine power as referred in SI No. i) a) of engine performance in case of tractors. With the ave a PTO shaft. 130 (D) 89 Yes d) Maximum tide letter no. EKL/Hom/R-142 dated 30.042.024 has requested not to conduct th ballasted drawbar performance test & ten-hour drawbar test which was allowed as per the addition: guidelines for testing of tractors vide an OM No 13-32/2023-M&T((BP) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test under unballasted condition was conducted		()						
c) Maximum drawbar power with unballast, as the case may be. 25.84 (D) 26.6 Yes c) Maximum drawbar power with unballast, (kW). Evaluative ferred in S1 No. i) a) of PTO power as of tractors having total static mass > 1500 kg Minimum 75% of PTO power as referred in S1 No. i) a) of PTO performance in case of tractors having s1500 kg total static mass of the engine performance in case of tractors having s1500 kg total static mass of the engine performance in case of tractors which do not have a PTO shaft. 130 (D) 89 Yes d) Maximum transmission oil temperature, (°C) Evaluative Evaluative three declared value should not exceed the recommendation by the oil manufacturer. The observed value should not exceed the declared value. 130 (D) 89 Yes * Applicant vide letter no. EKL/Hom/R-142 dated 30.04.2024 has requested not to conduct the ballasted drawbar performance test ten-hour drawbar test which was allowed as per the addition: guidelines for testing of tractors as per new regime of testing of tractors vide an OM No 13-32/2023-M&T(I&P) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test under unballasted condition was conducted only. 1 1 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>								
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b) Maximum drop in the Non- The observed value should 50 (D) 35 Yes						· · ·		
	b)	Maxi	l mum dron in th	e Non-			25	Yee
I regrit of the point of Evaluative not exceed 50 mm Maximum	5,		nt of the point of			Maximum	- 55	163
application of the force		appli	cation of the forc	e				
after each 5 minutes interval for a total								
interval for a total duration of 30 Minutes,								
(mm)				- /				

CENTRAL FARM MACHINERY TRAINING AND TESTING INSTITUTE – BUDNI Page 29 of 34

T-1901/2432/2024

ESCORTS KUBOTA LIMITED, 45 F51 (BRAND NAME - FARMTRAC) TRACTOR – INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 30/11/2029

1 3 4 5 6 7 a) Maximum stopping distance at a force, equal to or less than 600 N on brake pedal without balast, (m): No Maximum and water No No No No					_	_	-	
a) Maximum stopping distance at a force, equal to or less than 600 N on brake pedal without ballast, (m): 1) Cold brake Evaluative 10 10 (R) 6.39 Yes 2) Hot brake Evaluative 10 10 (R) 6.39 Yes b) Whether parking brake Evaluative Yes / No Yes Ye	1	Due	2	3	4	5	6	7
ballast, (m):								
2) Hotbrake Evaluative lis effective at a force of 600 N at toot pedal (s) or 400 N at hand 10 17 12 Yes Yes <thy< th=""><th>a)</th><th colspan="2">ballast, (m):</th><th>tance at a to</th><th>rce, equal to or less than 600 N</th><th>I on brak</th><th>e pedal v</th><th>without</th></thy<>	a)	ballast, (m):		tance at a to	rce, equal to or less than 600 N	I on brak	e pedal v	without
b) Whether parking brake is effective at a force of 600 N at toot pedal (s) or 400 N at hand lever Evaluative Yes / No Yes Yes Yes Yes 6.1.5 OPTIONAL TESTS: As the applicant has not applied for any optional tests was conducted. Image: Construct of the second			Cold brake					
is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever Mathematical constructed is a set of the set		/						
of 600 N at foot pedal (s) or 400 N at hand lever Image: Construction of the set of th	b)			Evaluative	Yes / No	Yes	Yes	Yes
(s) or 400 N at hand lever Image: Constructed by the second s								
fever Image: Construct of the second se								
6.1.5 optional tests was conducted. OPTIONAL TESTS: As the applicant has not applied for any optional tests, therefore no optional tests was conducted. 6.1.6 Safety features: moving and hot parts Belt drives, pulleys, silencer, 12239 (Part2) Meets the requirement Yes requirement b) Lighting arrangement Evaluative Belt drives, pulleys, silencer, 12239 (Part2) Meets the requirement Yes requirement c) Seating requirements for Decention requirements for PTO shaft Non Evaluative Should meet the requirements of time) Meets the requirement No meet the requirement No meet the requirement d) Technical three-point linkage Non Evaluative Should meet the requirements of time to time) Does not meet the requirement No meet the requirement g) Specifications of Swinging (wherever fitted) Non Evaluative Should meet the requirements of IS: 12953 (As amended from time to time) Not provided appli- cable Not power access 20 kmph, an audble warming signal on tractor Not provided Not appli- cable h) Audible warming signal on tractor Evaluative Evaluative Should conform to the requirement to time) ESCORTS (WDE TA LIMITED (Consumption and acture in numerical tor manufacture in numerical tor m		• • •						
6.1.6 Safety features: moving and hot parts moving and hot parts Evaluative Evaluative Belt drives, pulleys, silencer, hydraulic pipes (As per IS 12239 (Par2)) Meets the requirement Yes requirement b) Lighting arrangement Evaluative As per CMVR Meets the requirements of trequirements of shaft Meets the requirement Yes c) Seating requirements requirements for PTO shaft Non tree-point linkage Non three-point linkage Non Evaluative Should meet the requirements of IS: 12343 (As amended from time to time) Does not meet the requirement No meet the requirement Yes g) Specifications of Syninging drawbar Non Evaluative Should meet the requirements of IS: 12363 (As amended from time to time) Does not meet the requirements of IS: 12362 (Par3-3) (As amended from time to time) Not provided appli- cable Not appli- cable g) Specifications of Swinging drawbar Non Evaluative Should meet the requirements of IS: 12362 (Par3-3) (As amended from time to time) Not provided appli- cable Not appli- cable h) Audible warning signal on tractor Evaluative If tractor travel speed in reverse gar should be prominently displayed. Not provided to the effect that "operating the tractor byond 20 kmph speed in reverse gaar is should conform to the manufacture in numerical form Manufacture in numerical form Manufacture in numerical form Manufacture in numerical for	6.1.5	OP	IONAL TESTS: A		nt has not applied for any opti	onal test	s, theref	ore no
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6.1.7 Labelling of tractors (Provision of labelling plate): 1) Make Evaluative Should conform to the requirements of CMVR along-with declared value of PTO in kW, Specific fuel consumption (SFC) Evaluative Escorts LIMITED (FORMERLY ESCORTS LIMITED) 2) Model Evaluative consumption (SFC) 45 F51 Yes 3) Month & Year of manufacture Evaluative corresponding to maximum power in g/kWh and year of manufacture in numerical form 12/23 Yes 4) Engine number Evaluative MM YY E2655526 Yes 5) Chassis number 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 manufacturing 32.3 Yes 7) Specific fuel consumption, Evaluative Yes 263 Yes								
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7) Specific fuel Evaluative YY will represent the year of 263 Yes consumption, manufacturing		Ĺ			next two digit in the hox No 2 for			
consumption, manufacturing		7)	Specific fuel	Evaluative		26	63	Yes
g/kWh								
			g/kWh					

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ESCORTS KUBOTA LIMITED, 45 F51 (BRAND NAME - FARMTRAC) TRACTOR – INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO: 30/11/2029

1	2	3	4	5	6	7
6.1.8	Literature (Submi	ission to test age	ncv):			
(a)	Operator manual	Evaluative	The printed			Yes
(b)	Parts Catalogue	Evaluative		booklet form should be		Yes
(c)	Workshop/	Evaluative	provided as pe	er IS 8132 and	Provided	Yes
	Service manual		should submit	along with the		
			test sample.			
6.1.9	Fitment of Roll O					
	For tractor having more than 1150 mm rear track width	Evaluative	requirement c	d meet the f IS:11821 or or equivalent Standard	Not fitted	Not applicable
6.1.10	Standard Accessories	Evaluative	linkage drawk		Provided	Yes
6.1.11	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR		Provided	Yes
6.2	CATEGORY OF E	BREAKDOWNS / I	DEFECTS (As	per clause 5.0	of IS:12207-20	22):
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Require as per IS: 7		As observed	Whether meets the Requirements (Yes/No)
1.	Critical	Evaluative	There is breakdown' du of testing	breakdown' during the course		Yes
2.	Major	Evaluative	major break	t more than2 downs and n should be of e.	None	Yes
3.	Minor	Evaluative	minor defects	more than 5 during the test them should of e.	None	Yes
4.	Total breakdowns	Evaluative	of break d exceed five that	e total number owns should at is, (2major + (1 major + 4 5 minor	None	Yes

6.3 Conformity with following IS:

 of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)] ii) Agricultural tractors – Rear mounted power take-off - Types 1, 2 and 3 (third : Conference on the constant of the cons	0.5 0			
 ii) Agricultural tractors – Rear mounted power take-off - Types 1, 2 and 3 (third : Conference co	i)		:	Conforms
 1N,1, 2N, 2, 3N, 3, 4N & 4 [IS:17231-2019] iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year : Confu 2022)] v) Agricultural tractors- Operator's seat technical requirement [IS12343 – 2021] : Does confu vi) Guide for safety & comfort of operator of agricultural tractors:Part 1 General : Does 	ii)	Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third	:	Conforms
 2022)] v) Agricultural tractors- Operator's seat technical requirement [IS12343 – 2021] : Does confi vi) Guide for safety & comfort of operator of agricultural tractors:Part 1 General : Does 	iii)		:	Does not conform
 confection vi) Guide for safety & comfort of operator of agricultural tractors:Part 1 General : Does 	iv)		:	Conforms
, , , , , , , , , , , , , , , , , , , ,	v)	Agricultural tractors- Operator's seat technical requirement [IS12343 – 2021]	:	Does not conform
	vi)		:	Does not conform

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	ESCORTS KUBOTA LIMITED, 45 F51 (BRAND NAME - FARMTRAC)
T-1901/2432/2024	TRACTOR – INITIAL COMMERCIAL TEST
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- vii) Tractors and machinery for agriculture and forestry Technical means for : Does not ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) conform (Reaffirmed Year 2019)]
- viii) Guide lines for location and operation of operator controls on agricultural : Does not tractors and machinery [IS: 8133 2021] conform
- ix) Tractors and machinery for agriculture and forestry, powered lawn and garden : Conforms 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)]
- Agricultural Tractors and Machinery-Lighting device for travel on public roads : Conforms (IS:14683-1999) (Reaffirmed Year 2019)]

6.4 Salient Observations:

6.4.1 PTO performance test

During PTO performance test, maximum equivalent crank shaft torque was observed as **206.8** Nm against the minimum requirement of **207.9** Nm, which does not meet the non-evaluative requirement of IS: 12207-2022 in with regard to tolerance limit. This should be looked into for necessary corrective action.

6.4.2 Hydraulic performance test:

During hydraulic performance test maximum lifting force at lower hitch point was recorded as **11.98 kN** against the minimum requirement of **13.24 kN** which does not meet the evaluative requirement of IS: 12207-2022.

Upon this the applicant has vide letter No.EKL/Hom/R-196 dated 26.07.2024 has requested to perform following works, which was allowed.

- i) Cleaning of relief valve
- ii) Hydraulic oil filter (Part No. D104061509) was replaced with new one of same specification

After carrying out the above work, the test was re-conducted. **This should be looked into for necessary corrective action.**

6.4.3 Three-point linkage:

The following parameter does not meet the requirements of IS: 17231-2019:

- i) Diameter & width of ball of upper hitch point have been measured as 25.70 mm and 51.0 mm against the requirement of 19.30 to 19.50 mm and 43.5 to 44.0 mm respectively.
- ii) Diameter and width of ball of lower hitch point have been measured as 28.97 mm and 44.8 mm against the requirement of 22.40 to 22.65 mm and 44.5 to 45.0 mm respectively.
- iii) The power range (without force) has been measured as 600 mm against the minimum requirement of 610 mm.
- iv) The lateral distance from lower hitch point to centre line of tractor has been measured as 364 mm against the requirement of 359 mm.

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

6.4.4 Operator's seat:

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

- i) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- ii) Width of seat has been measured as 430 mm against the minimum requirement of 450 mm.

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- iii) Longitudinal distance from SIP to centre of differential lock pedal has been measured as 220 mm against the requirement of 410 to 720 mm.
- iv) Vertical distance from SIP to centre of steering control wheel has been measured as 200 mm against the requirement of 265 to 385 mm.
- v) Vertical distance from SIP to centre of accelerator pedal has been measured as 545 mm against the requirement of 230 to 460 mm.
- v) Vertical distance of SIP from foot rest has been measured as 620 mm against the requirement of 450 to 520 mm.

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

6.4.5 Operator's work place:

The following parameters does not meet the requirement of IS: 12239 (Part-I) -2018:

- i) Vertical retainers has not been provided on inner side of clutch pedal.
- ii) Spark arresting device has not been provided in the exhaust system.

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

6.4.6 PTO master shield:

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

6.4.7 Specification of Tractor:

Discrepancies in the specification between the Specification sheet and Operator's manual are as under:

S. No.	Description	As per Specification sheet	As per Operator's manual
i)	Engine capacity, cm ³	3514	3443/3510
ii)	Oil change period of gearbox oil	After 1200 hrs of operation	After 900 hrs of operation
iii)	Oil change of rear differential, rear axle, rear final drive, hydraulic system, & service brakes	After 1200 hrs of operation	After 900 hrs of operation

All of the above should be looked into for necessary corrective action.

6.5 Maintenance / Service Problems:

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

6.6 Recommendation with regard to safety on tractor:

- i) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table 5 of IS: 8133-2021.
- ii) The working clearance between position control lever & draft control lever has been measured as 50 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:

- 6.7.1 The following literatures were supplied with the test tractor for reference during the test: -
 - Operator's Manual for "Escorts Kubota Limited, 45 F51 (BRAND NAME FARMTRAC), POWERMAXX 45, POWERMAXX 50, POWERMAXX 60 & POWERMAXX 6055" tractor models.
 - ii) Parts Catalogue for "Escorts Kubota Limited, 45 F51 (BRAND NAME FARMTRAC)" tractor model.
 - iii) Service manual for "Escorts Kubota Limited, 45 F51 (BRAND NAME FARMTRAC)" tractor model.

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- **6.7.2** 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:
 - i) Engine to PTO speed ratio

50

- ii) Brand name of coolant and its ratio
- iii) Detail specification of tractor with max. PTO power, hydraulic power, maximum drawbar pull and maximum drawbar power.

RR

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

B.N. DIXIT AGRICULTURAL ENGINEER	ON-
P.LODH SENIOR AGRICULTURAL ENGINEER	Poplaszontz.
Dr. P. P. RAO DIRECTOR	P. P. Ras

Draft Test Report compiled by Poonam Khurasia, Senior Technical Assistant.

7. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
7.1	6.3 (iii, v, vi, vii & viii)	Observation will be studied, and necessary corrective action
		will be initiated.

ANNEXURE - I

TRACTOR RUN HOURS DURING TEST

Α.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared that it has already conducted on their work place
2.	PTO performance test	13.1
3.	Power lift and hydraulic pump performance test	8.0
4.	Drawbar performance test	12.9
5.	Brake performance test	1.3
6.	Nominal speed test	1.7
В.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	0.4
TOTAL:		37.4

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