

प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट
INITIAL COMMERCIAL TEST REPORT

संख्या/No. : T-1800/2331/2023
माह/Month : November, 2023

Application Reference No. 28/2022-23/151

(यह परीक्षण रिपोर्ट 30/11/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/11/2028)



Make of Agricultural Tractor : M/s Escorts Kubota Limited
Model : 6055 F32 (BRAND NAME - FARMTRAC)
Manufactured by : M/s. Escorts Kubota Limited, Plot No. 2 & 3,
Sector – 13, Faridabad – 121 007, Haryana



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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CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

TRACTOR NAGAR, BUDNI (M.P.) 466 445

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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

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[C]	Tractor manufacturer's name and address	: M/s. Escorts Kubota Limited, Plot No. 2 & 3, Sector – 13 Faridabad – 121 007 Haryana
[D]	Location of tractor assembly	i) Escorts Kubota Limited, Plot No. 2 & 3, Sector – 13 Faridabad – 121 007, Haryana ii) Escorts Kubota India Private Limited, 18/4, Mathura Road, Faridabad-121007, Haryana, India
[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	: 10
	-Transmission	: 15
[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 Identification:

1.1.1 Denomination

[C]	Make of tractor	: Escorts Kubota Limited
[C]	Model (trade name)	: 6055 F32 (BRAND NAME - FARMTRAC)
[C]	Type	: Rear Wheel Drive, Standard Agricultural Tractor
[C]	Month & year of manufacture	: 11/22
[D]	Country of origin	: India

1.1.2 Numbers:

[D]	1 st Serial No. of prototype	: T052618046HL
[C]	Serial No.	: T052618046HL

1.2 Engine:

[D]	Manufacturer's address	: Escorts Kubota Limited Plot No. 2 & 3, Sector – 13, Faridabad – 121 007, Haryana
[C]	Make	: M/s Escorts Kubota Limited
[C]	Model	: E4.391CRS4
[C]	Type	: Four stroke, naturally aspirated, liquid cooled, common rail direct injection, diesel engine
[C]	Serial No.	: E2607331

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		At maximum attainable speed			
Standard ballasted tractor	Braking device control force, (N)	386	320	250	119
	Mean deceleration, (m/sec ²)	3.64	3.59	3.40	2.50
	Stopping distance, (m)	13.00	13.15	13.90	18.90
	At 25 kmph travel speed				
	Braking device control force, (N)	386	320	250	119
	Mean deceleration, (m/ sec ²)	3.64	3.59	3.40	2.50
	Stopping distance, (m)	6.63	6.71	7.09	9.65

3.4.1.2 Brake fade test:

		At maximum attainable speed			
Standard ballasted tractor	Braking device control force, (N)	412	320	250	182
	Mean deceleration, (m/sec ²)	3.51	3.09	2.95	2.50
	Stopping distance, (m)	13.45	15.30	16.00	18.90
	At 25 kmph travel speed				
	Braking device control force, (N)	412	320	250	182
	Mean deceleration, (m/ sec ²)	3.51	3.09	2.95	2.50
	Stopping distance, (m)	6.86	7.80	8.16	9.65

Maximum deviation of tractor from its original course, (m) : None
 Abnormal vibration : None
 The brakes were heated by : Self braking

3.4.2 Parking brake test:

Particulars	18 percent slope		12 percent slope with trailer of 2.570 tones.	
	Up	Down	Up	Down
Braking device control force, (N)	324	358	346	402
Efficacy of parking brake	-----Effective-----			

Remark: the applicant has not recommended any ballast for road test. Hence the brake test was conducted in standard ballasted condition only.

4. OPTIONAL TEST RESULTS

As the applicant has not applied for any optional tests, therefore no optional tests was conducted.

5. REPAIRS

S. No.	Adjustment/Defect/Breakdown and Repairs	Tractor run hours
1.	During inspection, oil leakage was observed from Tandem pump i.e. steering cum hydraulic pump housing. Upon this, the applicant vide letter No. EKL/Hom/P-049 dated 27.10.2023 has requested for inspection to find out the cause of leakage. After dismantling the pump housing, it was observed that " Seal power steering pump " having part No. D10012900.9 was missing. Therefore, the applicant vide letter No. EKL/Hom/P-056 dated 31.10.2023 has requested to fit the said seal. The request of the applicant was allowed by the Competent Authority & hence, the seal was fitted in the steering cum hydraulic pump housing and the assembly was attached with the tractor. The breakdown was considered as Minor breakdown (Mn-17) as per IS 12207-2022.	4.5

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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:

Sl. 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 requirements (Yes/No)
1	2	3	4	5	6	7
MANDATORY TESTS: (As per Ministry's Office Memorandum No. 13-17/2021-M&T (I&P) dated 28th of July, 2022).						
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 ≤ 26 kW.	40.0 (D)	42.0	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	40.0 (D)	42.0	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	Should not be more than 10% of declared value.	250 (D)	249	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	235 (D)	243.0	Yes
e)	Back-up torque, percent	Evaluative	Should be min. 12%	12 (D) 12	21.3	Yes
f)	Maximum operating temperature, ($^{\circ}$ 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)	117	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)	101	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	2.49 Maximum	0.46	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	0.05	Yes

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1	2	3	4	5	6	7
6.1.2	Drawbar performance:					
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	*	*	*
b)	Max. drawbar pull with standard ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	In case of tractors having total static mass \geq 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 having \leq 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.	17.30 (D) 17.44 Minimum	20.84	Yes
c)	Maximum drawbar power with standard ballast, (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 \leq 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.	32.0 (D) 33.6 Minimum	37.5	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.	130 (D)	111	Yes

Remark:- Applicant vide letter no. EKL/Hom/P-041 dated 30th Sept,2023 has requested not to conduct the ballasted drawbar performance test & ten-hour drawbar test which was allowed as per the additional 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 standard ballast 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.	18.20 (D) 16.38 Minimum	21.61	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.	11.80 (D) 9.89 Minimum	18.01	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 interval for a total duration of 30 Minutes, (mm)	Non Evaluative	The observed value should not exceed 50 mm.	50 (D) Maximum	25	Yes
6.1.4	Brake performance at 25 kmph:					
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with road ballast, (m):					
	1) Cold brake	Evaluative	10	10	6.63	Yes
	2) Hot brake	Evaluative	10	10	6.86	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: As the applicant has not applied for any optional tests, therefore no optional tests was conducted.					
6.1.6	Safety features :					
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239 (Part2)]	Meets the requirement		Yes
b)	Lighting arrangement	Evaluative	As per CMVR	Conforms		Yes
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 not meet the requirement		No
d)	Technical requirements for PTO shaft	Non Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Does not meet the requirement		No
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS 17231: 2019 (As amended from time to time)	Does not meet the requirement		No
f)	Specifications of linkage drawbar	Non Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Does not meet the requirement		No
g)	Swinging drawbar (wherever fitted)	Non Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)	Not provided		Not applicable
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 applicable

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1	2	3	4	5	6	7	
6.1.7	Labelling of tractors (Provision of labeling plate):						
1)	Make	Evaluative	Should conform to the requirements of CMVR along-with declared value of PTO in kW, Specific fuel consumption (SFC) corresponding to maximum power in g/kWh and year of manufacture in numerical form <table border="1" style="margin-left: 20px;"><tr><td>MM</td><td>YY</td></tr></table> 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.	MM	YY	Escort Kubota Limited (Formerly Escorts Limited)	Yes
MM	YY						
2)	Model	Evaluative		6055 F32	Yes		
3)	Month & Year of manufacture	Evaluative		11/22	Yes		
4)	Engine number	Evaluative		E2607331	Yes		
5)	Chassis number	Evaluative		T052618046HL	Yes		
6)	Maximum PTO power, (kW)	Evaluative		40.0	Yes		
7)	Specific fuel consumption, (g/kWh)	Evaluative	250	Yes			
6.1.8	Literature (Submission to test agency):						
(a)	Operator manual	Evaluative	The printed literature in booklet form should be provided as per IS 8132 and should submit along with the test sample.	Provided	Yes		
(b)	Parts Catalogue	Evaluative		Provided	Yes		
(c)	Workshop/ Service manual	Evaluative		Provided	Yes		
6.1.9	Fitment of Roll Over Protective Structures (ROPS):						
	For tractor having more than 1150 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 tow hook, linkage 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	Provided	Yes		
6.2	CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022):						
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	As observed	Whether meets the Requirement (Yes/No)		
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 breakdowns and neither of them should be of repetitive nature.	None	Yes		
3.	Minor	Evaluative	There are not more than 5 minor defects during the test and neither of them should of repetitive nature.	One (Mn-17)	Yes		
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed five that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	One	Yes		

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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)] : **Does not conform**
- 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] : **Does not conform**
- 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)] : **Does not conform**
- x) Agricultural Tractors and Machinery-Lighting device for travel on public roads (IS:14683-1999) (Reaffirmed Year 2019)] : **Conforms**

6.4 Salient Observations:

6.4.1 Laboratory tests:

6.4.1.1 Power take-off shaft:

Height of PTO shaft from the ground level was observed as 680 mm against the requirement of 450 to 675 mm. This should be looked into for corrective action.

6.4.1.2 Three-point linkage:

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

The dimensions viz. Lateral distance from lower hitch point to centre line of tractor does not meet the requirements of IS: 17231-2019. This should be looked into for corrective action.

6.4.1.3 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 130 kg against the requirement of 40 to 100 kg.
- ii) Vertical distance from SIP to centre of steering control wheel has been measured as 235 mm against the requirement of 265 to 385 mm.

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

6.4.1.4 Operator’s work place:

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

- i) Vertical retainers on clutch pedal are not provided.
- 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.

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6.4.1.5 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.

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 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.
- iii) The hand operated PTO lever, moves rearward for engage, which does not meet the requirement as laid down in Table – 1 of IS: 8133-2021.
- iv) The working clearance between position control lever & RHS of mud guard, between spool valve levers & RHS of mud guard and between position & draft control levers have been measured as 50, 25 & 30 mm respectively 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: -

- i) Operator Manual for “Escorts Kubota Limited, 6055 F32 (BRAND NAME: FARMTRAC) WORLDMAXX 60 & WORLDMAXX 6065,” tractor models.
- ii) Parts catalogue for “Escorts Kubota Limited, 6055 F32 (BRAND NAME: FARMTRAC),” tractor models.
- iii) Service manual (Part- 1 & 2) for “Escorts Kubota Limited, 6055 F32 (BRAND NAME: FARMTRAC),” tractor models.




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) Recommended ballast masses for different operations.
- ii) Nominal speed announced in the operator manual for splitter gear does not match with the speed observed in the nominal speed test.
- iii) Safe hitch height while using trailer.

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

TESTING AUTHORITY

B.N. DIXIT AGRICULTURAL ENGINEER	
R.P. PANDEY SENIOR INSTRUMENTATION ENGINEER	
A. K. UPADHYAY DIRECTOR (I/C)	

Draft Test Report compiled by Sh. B.N. Dixit, Agricultural Engineer.

7. APPLICANT'S COMMENTS

Para No.	Our reference	Comments
7.1	6.3 (ii, iii, v, vi, vii, viii & ix)	Observations will be studied and will try to make necessary corrective action.

ANNEXURE - I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared it to be conducted on their work place.
2.	PTO performance test	10.7
3.	Power lift and hydraulic pump performance test	4.74
4.	Drawbar performance test	9.32
5.	Brake performance test	1.25
6.	Nominal speed test	3.0
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	2.25
TOTAL:		31.26