प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1873/2404/2024

INITIAL COMMERCIAL TEST REPORT माह/Month : July, 2024

Application Reference No. 28/2023-24/99

(यह परीक्षण रिपोर्ट 31/07/2029 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/07/2029



Make of Agricultural Tractor: ESCORTS KUBOTA LIMITED

Model : 439 E8 (BRAND NAME - POWERTRAC)

Manufactured by : M/s. 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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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: July Test Report No.: T-1873/2404/2024 Year: 2024



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

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		THIS TE	ST RI	EPORT IS VALID UPTO: 31/07/2029
[C]	Tractor man	nufacturer's name and	:	M/s. Escorts Kubota Limited, 15/5, Corporate Centre, Mathura Road, Faridabad- 121003, Haryana, India
[D]	Location of	tractor assembly		 i) Escorts Kubota Limited, Plot No. 2 & 3, Sector – 13 Faridabad – 121 007, Haryana, India ii) Escorts Kubota India Private Limited, 18/4, Mathura Road, Faridabad-121 007, Haryana, India iii) Escorts Kubota Limited, 18/4, Mathura Road, Faridabad-121007, Haryana, India
[C]	Submitted f	or test by (Applicant)	:	M/s. 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]	Place of rur	nning-in	:	At manufacturer's works
[D]		running-in (h):		
	-Engine	•	:	25
[C]	-Transmissi Location of		:	15 Government of India, Central Farm Machinery Training and Testing Institute, P.O Tractor Nagar, BUDNI – 466445 (M.P.), INDIA
		1. SPECIFICA	IOITA	NS OF TRACTOR
1.1 1.1.1 [C] [C] [C] [C] [D]	Identification Denominate Make of trace Model (trade Type Month & year Country of country	i on ctor e name) ar of manufacture	: : :	Escorts Kubota Limited (Formerly Escorts Limited) 439 E8 (BRAND NAME - POWERTRAC) Rear wheel drive, Standard agricultural tractor 12/23 India
1.1.2 [D] [C]	Numbers: 1 st Serial N Serial No.	o. of prototype	:	T053217475CH T053682363JM
1.2 [D]	Engine: Manufactur	er's address	:	Escorts Kubota Limited, (Formerly Escorts Limited) 15/5, Mathura Road, Faridabad- 121 003,
[C] [C]	Make Model Type		:	Haryana, India Escorts Kubota Limited E3.234B – 3A Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine
[C]	Serial No.		:	E3776714
1.2.1 [C]	Cylinders: Number/dis	position	:	Three, vertical, in-line

ESCORTS KUBOTA LIMITED, 439 E8 (BRAND NAME - POWERTRAC) – INITIAL COMMERCIAL TEST

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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:

S. No.	Characteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)		Whether meets the require- ments (Yes/No)
1	2	3	4	5	6	7
	MANDATORY TEST dated 28 th of July, 2		Ministry's Office Memorandur	n No. 13-17	7/2021-M8	kT (I&P)
6.1.1	PTO Performance:	022).				
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.	25.9 (D)	24.0	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	25.9 (D)	24.0	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	Should not be more than 10% of declared value	265 (D)	267	Yes
d)	Maximum equivalence crankshaft torque (Nm)		± 8%	155 (D)	147.6	Yes
е)	Back-up torque, percent	Evaluative	Should be minimum 12 percent	12 (D) 12 (R)	28.8	Yes
f)	Maximum operating		(°C):	, ,	•	
	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)	100	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.	110 (D)	103	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at Max power under natural ambient conditions.	2.67 Maximum (R)	0.51	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).	3.25 per meter Maximum (R)	0.31	Yes

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1		2	3	4	5	6	7
6.1.2	Drav	vbar performand	e:				
a)	with corre perce (kN)	drawbar pull ballast esponding to 15 ent wheel slip,	Non- Evaluative	Minimum 70% of static mass of tractor with ballast.	*	*	*
b)	Max. drawbar pull without ballast/with standard ballast corresponding to 15 percent wheel slip, (kN)		Evaluative	Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be.	12.70 (D) 12.63 (R)	15.11	Yes
c)	Maximum drawbar power without ballast/ standard (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		20.72 (D) 19.2 (R)	20.8	Yes		
d)	Maximum transmission oil temperature, (°C) Applicant vide letter no. EKL/Hom/R-134 dated 08.04.2024 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. 13-17/2021-M&T (I&P) dated 28/07/2022 & OM No. 13-32/2023-M&T (I&P) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test in unballasted condition was conducted only.						
6.1.3	Pow	er lift and hydra	ulic pump pe	erformance:			
a)	Maxi	mum lifting capad	city throughou	t the range of lift, (kN):			
	1)	At hitch points	Evaluative	Should not be less than 90% of declared value.	13.73 (D) 12.36 (R) Minimum	15.76	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.	6.40 (D) 5.65 (R) Minimum	10.63	Yes
b)	heigh appli after inter	mum drop in the not of the point of the point of cation of the force each 5 minuted val for a total tion of 30 Minutes ()	e Evaluative s	The observed value should not exceed 50 mm	50 (D) Maximum	90	No

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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 without ballast, (m): 1) Cold brake Evaluative 10 10 (R) 6.53 Yes 2. Hot brake Evaluative 10 10 (R) 6.60 Yes but after the feeting at a force of 600 N at foot pedal (s) or 400 N at hand lever 6.1.5 OrTONAL 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 1223) Meets the requirement Parallel (Parallel) As per CMVR Meets the requirement Parallel (Parallel) As per CMVR Meets the requirement of IS: 12343 (As amended from time to time) b) Lighting arrangement Evaluative Should meet the requirements of IS: 12343 (As amended from time to time) d) Technical requirements for PTO shaft Evaluative Should meet the requirements of IS: 4931 (As amended from time to time) e) Dimensions of Inkage drawbar Evaluative Should meet the requirement of IS: 17231-2019 (As amended from time to time) g) Specifications of Is Should meet the requirement of IS: 17231-2019 (As amended from time to time) g) Specifications of Swinging drawbar (Wherever fitted) A sicker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed. A visiker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed. A visiker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed. A visiker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed. A visiker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed. A visiker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" sho	1		2	3	4	5	6	7
Maximum stopping distance at a force, equal to or less than 600 N on brake pedal without ballast, (m): 1		Bra	_		-	3	•	'
(m): 1					e equal to or less than 600 N on h	rake neda	l without	hallast
1) Cold brake Evaluative 10 10 (R) 6.53 Yes	a,			ando at a forot	5, equal to 61 1655 than 600 14 611 5	rano poda	Without	ballast,
Dimensions of three-point linkage drawbar (wherever fitted) Dimensions of linkage drawbar (wherever fitted) Specifications of Swinging or drawbar (wherever fitted) Dimensions of Swinginging or drawbar (_ `		Evaluative	10	10 (R)	6.53	Yes
b) Whether parking brake is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever 6.1.5 OPTONAL 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 b) Lighting arrangement Evaluative b) Lighting arrangement Evaluative C) Seating requirements Non Evaluative Belt drives, pulleys, silencer, hydraudic pipes [As per IS 12239] [Part2]) Reproductive Productive Product								_
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 (Part2)] b) Lighting arrangement Evaluative (Part2)] b) Lighting arrangement Evaluative (Part2)] c) Seating requirements Non Evaluative (Part2)] d) Technical requirements for PTO shaft (Part2)] e) Dimensions of three-point linkage (Part2) (Part2)] f) Specifications of linkage drawbar (wherever fitted) h) Audible warning signal on tractor (Provision of Make (Part2)) (Part2)] h) Make Evaluative (Part2) (Part2	b)							
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 b) Lighting arrangement Evaluative (Part2)] b) Lighting arrangement Evaluative (Part2)] c) Seating requirements Non Evaluative (Part2)] b) Lighting arrangement Evaluative (Part2)] c) Seating requirements Non Evaluative (Part2)] c) Seating requirements of Non Evaluative (P	.,			Lvaladiivo	1007140	100	. 00	100
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) Gaards against moving and hot parts Evaluative (Part2)] b) Lighting arrangement Evaluative (Part2)] c) Seating requirements Non Evaluative (Part2)] d) Technical requirements for PTO shaft e) Dimensions of three-point linkage (Non Evaluative) f) Specifications of Swinging drawbar (wherever fitted) h) Audible warning signal on tractor 6.1.7 Labelling of tractors (Provision of Jaculative (Part2)] Make Evaluative (Part2) As per CMVR Meets the requirements of IS: 12343 (As amended from time to time) Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239] Model Sevaluative (Part2)] Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239] Meets the requirement of IS: 12343 (As amended from time to time) As per CMVR Meets the requirements of IS: 4931 (As amended from time to time) Non Evaluative to time) Should meet the requirements of IS: 12362 (Part3) (As amended from time to time) Should meet the requirements of IS: 12352 (Part3) (As amended from time to time) Should meet the requirements of IS: 12352 (Part3) (As amended from time to time) As per CMVR Meets the requirement of IS: 4931 (As amended from time to time) Meets the requirement of IS: 12352 (Part3) (As amended from time to time) Should meet the requirement of IS: 12362 (Part3) (As amended from time to time) Not provided Not applicable varing 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 along with declared value of PTO in kW, Specific fuel consumption (SFC) (CORMENLY) (SCORTS LIMITED (CORMENLY) (FORMENLY) (FORMEN								
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6.1.6 Safety features: a) Guards against moving and hot parts b) Lighting arrangement Evaluative b) Lighting arrangement Evaluative c) Seating requirements d) Technical requirements for PTO shaft b) Evaluative for time to time) c) Specifications of linkage drawbar (wherever fitted) d) Specifications of Swinging drawbar (wherever fitted) h) Audible warning signal on tractor Evaluative 2) Model Specifications of Model Evaluative and form time to time) Evaluative for Dimensions of Swinging drawbar (wherever fitted) c) A sticker to the effect that coperating the tractor beyond 20 kmph speed in reverse gear exceeds 20 kmph, an audible warning signal on tractor signal model for manufacture for man					, .		•	
a) Guards against moving and hot parts Evaluative Evaluative Evaluative As per CMVR As per CMVR As per CMVR Yes requirement of IS: 12239 As per CMVR C) Seating requirements Non Evaluative As per CMVR As per CMVR Yes requirement of IS: 12343 (As amended from time to time) As per CMVR As per CMVR As per CMVR Yes requirement of IS: 12343 (As amended from time to time) As per CMVR As per CMVR Yes requirement of IS: 12343 (As amended from time to time) As per CMVR As per CMVR Yes requirement of IS: 12343 (As amended from time to time) As per CMVR Yes requirement of IS: 4931 (As amended from time to time) As per CMVR As per CMVR As per CMVR Yes requirement of IS: 12343 (As amended from time to time) As per CMVR	6.1.6							
b) Lighting arrangement Evaluative c) Seating requirements Non Evaluative d) Technical requirements for PTO shaft e) Dimensions of three-point linkage f) Specifications of linkage drawbar (wherever fitted) h) Audible warning signal on tractor f) Audible warning signal on tractor Evaluative f) Make Evaluative 2) Model Evaluative 2) Model Evaluative 2) Model Evaluative 3) Month & Year of manufacture 4) Engine number (Samulative) 7) Specific fuel Evaluative 6) Maximum PTO power, (kW) 7) Specific fuel Evaluative 7) Specific fuel Evaluative 7) Seating requirements of Evaluative of Is: 12353 (As amended from time to time) 8) Should meet the requirements of Is: 12353 (As amended from time to time) 8) Specifications of Is abelling plate): 8) Specific fuel Evaluative 8) Should meet the requirements of Is: 12362 (Part-3) (As amended from time to time) 8) Not provided Not applicable and the prominently displayed. 8) Not provided Not applicable and the prominently displayed. 9) Model Evaluative 1) Make Evaluative 1) Make Evaluative 1) Maximum PTO power, (kW) 7) Specific fuel Consumption, Press (KW						Meets	s the	Yes
b) Lighting arrangement				Evaluative				
c) Seating requirements								
C) Seating requirements	b)	Ligh	ting arrangement	Evaluative	As per CMVR			Yes
Evaluative St. 12343 (As amended from time requirement to time) Technical requirements for PTO shaft Should meet the requirements of list same and the requirement of time) Should meet the requirements of list same and the requirement of time) Should meet the requirements of list same and time to time) Should meet the requirements of list same and time to time) Should meet the requirements of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and time to time) Should meet the requirement of list same and the requirement of list same an								
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1	2	3	4	5	6	7	
6.1.8	Literature (Subm	Literature (Submission to test agency):					
(a)	Operator manual	Evaluative	•	ature in booklet	Provided	Yes	
(b)	Parts Catalogue	Evaluative		provided as per	Provided	Yes	
(c)	Workshop/ Service manual	Evaluative		IS 8132 and should submit along with the test sample.		Yes	
6.1.9	Fitment of Roll Over Protective Structures (ROPS):						
	For tractor having more than 1150 mm rear track width			of IS:1182 or or equivalent	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		ht, if fitted, neet the f CMVR	Not fitted	Not applicable	

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 Requirements (Yes/No)	
1.	Critical	Evaluative	There is no 'critical breakdown' during the course of testing	None	Yes	
2.	Major	Evaluative	There are not more than2 major break downs 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.	None	Yes	
4.	Total breakdowns	Evaluative	In no case, the total number of break downs should exceed five that is, (2major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes	

6.3 Conformity with following IS:

 Guidelines for declaration of power and specific fuel consumption and labeling of : Conforms agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)]

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

iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Categories : **Does not** 1N,1,2N, 2, 3N, 3,4N & 4 [IS: 17231:2019] **conform**

iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year : Conforms 2022)]

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 : Does not requirements (first revision):[IS 12239 (Part 1) - 2018] conform

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)]

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viii) Guide lines for location and operation of operator controls on agricultural tractors : **Does not** and machinery [IS: 8133 - 2021] **conform**

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)]

x) 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 Hydraulic Performance Test:

i) During the hydraulic lift load maintenance test, the drop in vertical height of the lower link was observed as 90 mm against the maximum permissible limit of 50 mm. This should be looked into for necessary corrective action.

6.4.2 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:

- i) Diameter of upper hitch point hole and width of ball for upper hitch point have been measured as 25.72 mm and 51.0 mm against the requirement of 19.30 to 19.50 mm and 43.5 to 44.0 mm respectively.
- ii) Width and diameter of ball for lower hitch point has been measured as 44.7 mm & 28.8 mm against the requirement of 34.5 to 35.0 mm & 22.40 to 22.65 mm respectively.
- iii) Lateral distance from lower hitch point to centre line of tractor has been measured as 364 mm against the requirement of 359 mm.
- iv) Levelling adjustment has been measured as 80 mm against the requirement of 100 mm (min.)

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

6.4.3 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 120 kg against the requirement of 40 to 100 kg.
- ii) Vertical distance from SIP to centre of accelerator pedal has been measured as 535 mm against the requirement of 230 to 460 mm.
- iii) Vertical distance from SIP to foot rest has been measured as 599 mm against the requirement of 450 to 520 mm.
- iv) Lateral distance from SIP to center line of clutch pedal has been measured as 230 mm against the requirement of 75 to 300 mm.

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

6.4.4 Operator's work place:

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

- i) Vertical retainer has not been provided on inner side of clutch pedal.
- Height of first step from ground level measured as 585 mm against the requirement of 550 mm (max.).
- iii) Width of step has been measured as 150 mm against the requirement of 200 mm (min.)
- iv) Spark arresting device has not been provided in the exhaust system.

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

6.4.5 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.

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- Provision for starting/stopping engine shall be made to prevent the engine starter has not been provided as per the requirement as laid down in Table 1 of IS: 8133-2021.
- iii) Engine stopper lever does not remain in stop position without application of sustained manual effort.
- iv) 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.
- v) Hand operated PTO engaging lever, when moved rearward from the operator to engage the PTO, which does not meet the requirement as laid down in Table – 1 of IS: 8133-2021.
- vi) The working clearance between position control lever & draft control lever has been measured as 25 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, 439 E8 (BRAND NAME POWERTRAC), 439 RDX, 434 PLUS & 425 N" tractor models.
 - ii) Parts Catalogue for "Escorts Kubota Limited, 439 E8 (BRAND NAME POWERTRAC)" tractor model.
 - Service manual for "Escorts Kubota Limited, 439 E8 (BRAND NAME POWERTRAC)" tractor model.
- 6.7.2 The operator manual may be brought out for the guidance of user's and service personnel as per IS:8132-1999 incorporating, inter alia, the following:
 - Safe hitch height while using trailer.
 - ii) Recommended ballast masses for different operations.
 - iii) Literature should be brought out in national as well as other regional languages of india for the guidance of user.

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

SHIVKUMAR SHARMA AGRICULTURAL ENGINEER	Shoul
R. P. PANDEY SENIOR INSTRUMENTATION ENGINEER (TESTING HEAD)	Randey
Dr. P.P. RAO DIRECTOR	P. P. Ran

Draft Test Report compiled by Shivkumar Sharma, Agricultural Engineer.

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 we will try to take necessary corrective action.

	ESCORTS KUBOTA LIMITED, 439 E8 (BRAND NAME - POWERTRAC) -	
T-1873/2404/2024	INITIAL COMMERCIAL TEST	
	THIS TEST REPORT IS VALID UPTO: 31/07/2029	

ANNEXURE - I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared that it has already
		conducted at manufacture's work place.
2.	PTO performance test	12.2
3.	Power lift and hydraulic pump performance test	1.0
4.	Drawbar performance test	3.7
5.	Brake performance test	1.3
6.	Nominal speed test	0.4
B.	Miscellaneous test and other run hours including idle	5.1
	run, transportation, trials and preparation for test	
	TOTAL:	23.7