

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT (Initial)

संख्या/No. : T-1703/2234/2023
माह/Month : January, 2023

(यह परीक्षण रिपोर्ट 31/01/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/01/2028)

[Application Reference No. 28/2021-22/119]



**ESCORTS KUBOTA LIMITED, 50 F5
(BRAND NAME – FARMTRAC) TRACTOR**



भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय
(कृषि एवं किसान कल्याण विभाग)

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS WELFARE
(DEPARTMENT OF AGRICULTURE & FARMERS WELFARE)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान
ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

(An ISO 9001: 2015 Certified Institute)

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T-1703/2234/2023	ESCORTS KUBOTA LIMITED, 50 F5 (BRAND NAME – FARMTRAC) TRACTOR - COMMERCIAL (Initial)
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Manufacturer : **M/s. Escorts Kubota Limited,
Plot No. 2 & 3, Sector - 13,
FARIDABAD – 121 007 (Haryana), India**

Location of manufacturing plants (apa) : i) M/s. Escorts Kubota Limited,
Plot No. 2 & 3, Sector - 13,
FARIDABAD – 121 007 (Haryana)
ii) M/s. Escorts Kubota India Private
Limited,
Plot No. 18/4, Mathura Road,
FARIDABAD – 121 007 (Haryana)

Test requested by : M/s Escorts Kubota Limited, Knowledge
Management Center, 15/5, Mathura Road,
FARIDABAD – 121 003 (Haryana)

Selected for test by : Testing Authority
Place of running-in : At testing institute
Duration of said running-in, (h):
- Engine : 10
- Transmission : 15

Method of Selection : The test sample was selected randomly out
of five tractors from the production line by
the representative of testing authority
through online mode.
**Tractors chassis serial number made
available for random selection**
i) T054000353AL
ii) **T054000354AL**
iii) T054000355AL
iv) T054000356AL
v) T054000357AL

1. SPECIFICATIONS

1.1 Tractor:

Make : Escorts Kubota Limited
Model : 50 F5
Brand name : FARMTRAC
Variant, if any : None
Type : Four wheeled, Rear wheel driven, Standard
Agricultural Tractor.
Year of manufacture : 04/22
Chassis number : T054000354AL
Country of origin : India

1.2 Engine:

Manufacturer address : M/s. Escorts Kubota Limited,
Plot No. 2 & 3, Sector - 13,
FARIDABAD – 121 007 (Haryana)

Make : Escorts Kubota Limited
Model : FN3.351A-3A
Type : Four stroke, naturally aspirated, liquid cooled,
direct injection, diesel engine.
Serial number : E2580875
Year of manufacture : Not available

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17. ADJUSTMENTS, DEFECTS, BREAKDOWNS AND REPAIRS

Sl. No.	Adjustments/Defects/Breakdowns and Repairs	Tractor run hours
1	2	3
	None	

18. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

18.1 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: 12207-2019 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: 12207-2019	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
18.1.1	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.	32.3 (D)	31.7	Yes
b)	Power at rated engine speed, (kW)	Non-Evaluative	-do-	32.3 (D)	31.7	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	263 (D)	253	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non-Evaluative	$\pm 8\%$	228 (D)	225.8	Yes
e)	Back-up torque, percent	Evaluative	12 percent	12% (D) 12 % (R) Minimum	38.1	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 high ambient condition should not exceed the declaration.	130 (D)	109	Yes

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1	2	3	4	5	6	7
	2) Coolant	Evaluative	The declared value should not exceed the boiling temperature of coolant under the pressurized or otherwise and the observed value under high ambient condition should not exceed the declaration.	118 (D)	101	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions.	2.53 Maximum (R)	0.43	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 Maximum (R)	0.10	Yes
18.1.2	Drawbar performance:					
a)	Max. drawbar pull with ballasted corresponding to 15 percent wheel slip, (kN)	Non-Evaluative	Minimum 70% of static mass of tractor with ballast.	20.20 (D)	23.76	Yes
				19.63 (R) Minimum		
b)	Max. drawbar pull without ballasted 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.	15.58 (D)	18.07	Yes
				14.96 (R) Minimum		
c)	Maximum drawbar power without 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 ≤1500 kg total static mass of tractor Minimum 75 % of the engine power as referred in SI No. i) a) of engine performance in case of tractors which do not have a PTO shaft.	25.84 (D)	28.1	Yes
				25.4 (R) Minimum		
d)	For tractors fitted with air conditioned /heated cabin: Maximum drawbar power without ballast, or with standard ballast as the case may be, kW	Evaluative	Minimum 70 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg	Nil	Not applicable	Not applicable
e)	Maximum transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	130 (D)	88	Yes

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1	2	3	4	5	6	7
18.1.3	Power lift and hydraulic pump performance:					
a)	Maximum lifting capacity throughout the range of lift, (kN):					
1)	At hitch points	Evaluative	Tolerance of $\pm 10\%$	13.80 (D)	13.69	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.	7.60 (D) 7.46 (R) Minimum	11.56	Yes
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	8	Yes
18.1.4	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)	7.71	Yes
2)	Hot brake	Evaluative	10	10 (R)	7.85	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N)	Evaluative	600	600 (R) Maximum	228 to 270	Yes
c)	Whether parking brake is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever, N	Evaluative	Yes / No	Yes	Yes	Yes
18.1.5	Noise measurement:					
a)	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	As per CMVR	88 (R)	83	Yes
b)	Maximum noise at operator's ear level dB(A)	Evaluative	As per CMVR	96 (R)	94	Yes
18.1.6	Amplitude of mechanical vibrations at:					
1)	Left foot rest	Non-Evaluative	100 microns (max)	100(R)	120	No
2)	Right foot rest				89	Yes
3)	Seat (with driver seated)				103	No
4)	Steering wheel				281	No
18.1.7	Air cleaner Oil Pull-Over:					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25% (Maximum)	0.25 (D) Maximum	0.16	Yes

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1	2	3	4	5	6	7
18.1.8	Haulage requirements:					
a)	Gross mass of the trailers, (ton):					
	Two wheels	Non-Evaluative	As specified by the manufacturer	5.0 (D)	5.0	Yes
	Four wheels	Non-Evaluative	As specified by the manufacturer	6.0 (D)	6.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheels	Non-Evaluative	As specified by the manufacturer	8.00 to 9.00 (D)	5.17	No
	Four wheels	Non-Evaluative	As specified by the manufacturer	8.00 to 9.00 (D)	5.37 to 5.59	No
c)	Fuel consumption (ml/km/tonne):					
	Two wheels	Non-Evaluative	As specified by the manufacturer	30.00 to 35.00 (D)	38.68	No
	Four wheels	Non-Evaluative	As specified by the manufacturer	30.00 to 35.00 (D)	29.82 to 31.03	No
18.1.9	Wetland cultivation:					
	Sealing for the following assemblies:	Evaluative	The identified assemblies should essentially meet the requirement of IS: 11082. No water ingress in the identified assembly given in column-2. If tractor does not meet the requirements of wetland cultivation, it may be recommended for dry land operation only.	There should be no ingress of water and/or mud (R)	No ingress of mud and / or water was observed	Yes
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine oil	-do-				
	5) Transmission oil	-do-				
18.1.10	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		Meets the requirement	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	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)		Meets the requirement	Yes
e)	Dimensions of three point linkage	Non-Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)		Does not meet the requirement	No

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1	2	3	4	5	6	7
f)	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)		Meets the requirement	Yes
g)	Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)		Not Provided	--
h)	1) Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 Kmph		(10.84 kmph) Meets the requirement	Yes
	2) Audible warning signal on tractor	Evaluative	As soon as the travelling speed in reverse gear reaches to 20 kmph, an audible warning signal on tractor shall be activated. The safety aspects about the operation of shuttle technology shall be brought in operation and manufacturer /dealer shall ensure the training on this aspect to operator before the delivery of tractor.		Not fitted	Not applicable
18.1.11	Labelling of tractors (Provision of labelling plate):					
	1) Make	Evaluative	Should conform to the requirements of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form. <div style="display: flex; justify-content: space-around; border: 1px solid black; padding: 2px;"> MM YY </div> Digit 01 – 12 in box No.1 for MM will represent the months and next two digits in box No.2 for YY will represent the year of manufacturing.	ESCORTS LIMITED		Yes
	2) Model	Evaluative		50 F5		Yes
	3) Month & Year of manufacture	Evaluative		04	22	Yes
	4) Engine number	Evaluative		E2580875		Yes
	5) Chassis number	Evaluative		T054000354AL		Yes
	6) Maximum PTO power, kW	Evaluative		32.3		Yes
	7) Specific fuel consumption g/kWh	Evaluative		263		Yes
18.1.12	Discard limit for:					
a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	108.0 (D)	106.656 to 106.680	Yes
b)	Clearance between piston & cylinder liner at skirt, (mm)	Non-Evaluative		0.4500.30 (D)	0.070 to 0.078	Yes
c)	Piston diameter at the skirt, (mm)	Non-Evaluative		When the ring groove clearance exceeds discard limit	106.596 to 106.608	Yes
d)	Ring end gap (mm):					
	- Top comp. ring	Evaluative	-do-	4.0 (D)	0.30 to 0.35	Yes
	- 2 nd comp. ring		-do-	4.0 (D)	0.70 to 0.75	Yes
	- Oil ring		-do-	4.0 (D)	0.50 to 0.60	Yes

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1	2	3	4	5	6	7	
e)	Ring groove clearance (mm):						
	-	Top comp. ring	Evaluative	-do-	2.0 (D)	0.136 to 0.139	Yes
	-	2 nd comp. ring		-do-	2.0 (D)	0.083 to 0.101	Yes
	-	Oil ring		-do-	2.0 (D)	0.058 to 0.061	Yes
f)	Clearance of main bearings (mm):						
	-	Diametrical clearance	Evaluative	-do-	1.00 (D)	0.015 to 0.047	Yes
-	Crankshaft end float	Evaluative	1.20 (D)		0.07	Yes	
g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	1.00 (D)	0.021 to 0.035	Yes
	-	Axial	Evaluative	-do-	1.20 (D)	0.25	Yes
h)	Clearance between king pin and bush, (mm)		Non Evaluative	-do-	0.40 (D)	0.122 to 0.258	Yes
i)	Clearance between centre pin and bush, (mm)		Non Evaluative	-do-	0.50 (D)	0.212 to 0.303	Yes
18.1.13 Literature (Submission to test agency)							
a)	Operator manual	Evaluative	Literature should meet the requirement of Indian Standard: 8132	Provided/ Not Provided	Provided	Yes	
b)	Parts Catalogue	Evaluative		Provided/ Not Provided	Provided	Yes	
c)	Workshop/ Service manual	Evaluative		Provided/ Not Provided	Provided	Yes	
18.1.14 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:1182 or OECD code or equivalent International Standard	Not provided (D)	Not fitted	Not applicable	
18.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided (D)	Provided	Yes	
18.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	Not applicable (D)	Not fitted	Not applicable	

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18.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
S. No.	Category of breakdowns	Category (Evaluative/ Non-Evaluative)	Requirements as per IS: 12207-2019	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 than 2 major breakdowns and neither of them is of repetitive nature	None	Yes
3.	Minor	Evaluative	Not more than 5 and frequency of each should not be more than two.	None	Yes
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed four, that is, (2 major + 3 minor) or 5 minor breakdowns.	None	Yes

18.3 Salient Observations:

18.3.1 Laboratory tests:

18.3.1.1 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies marked as (*) in Chapter-9 of this test report are on higher side, especially at LHS foot rest, steering control wheel and operators seat and does not meet the non-evaluative requirements of IS: 12207 - 2019. This calls for dampening down of vibrations to improve operational comfort and service life of components.

18.3.1.2 Drive wheel rims:

- i) The sizes of Drive Wheel Rims were found to be "W12 x 16".
- ii) As per Rule 95 A (2) of CMVR, 1989 read in conjunction with IS: 13154- 2015 provides for "The Agricultural Tractor manufacturer shall select ONLY THAT RIM SIZE AS RECOMMENDED BY THE TYRE MANUFACTURER." In this case, the rim size RECOMMENDED by IS: 13154-2015, by ITTAC manual is "W13". An immediate corrective action is required to be taken even in stand point of view with compliance to CMVR, 1989.

18.3.1.3 Operator seat: Meet the requirements of IS: 12343- 2021, except the following:-

- i) Length of seat is 355 mm against the requirement of 260±50 mm.
 - ii) Width of seat is 420 mm against the requirement of 450 mm minimum.
 - iii) The provision for adjustment of driver's mass is 50 to 120 kg against the requirement of 40 to 100 kg.
 - iv) Vertical distance of centre of steering control wheel from seat index point (SIP) is 200 mm, against the requirement of 265 to 385 mm.
 - v) Vertical distance of centre of foot rest from seat index point (SIP) is 620 mm, against the requirement of 450 to 520 mm.
- This should be looked into for necessary corrective action.

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18.3.1.4 Specifications of three point linkage:

The dimensions viz. diameter of hitch pin hole & width of ball of upper hitch points, diameter of hitch pin hole & width of ball of lower hitch points, lateral distance from lower hitch point to centre line of tractor and transport height does not meet the requirements of IS:4468 (Part-I) – 1997. This should be looked into for necessary corrective action.

18.3.2 Haulage Test:

- i) The distance covered per litre of fuel consumption in two wheel & four wheel trailer has been observed as 5.17 & 5.37 to 5.59 km/l, respectively against the declaration of 8.00 to 9.00 km/l. It may be looked into for necessary corrective action
- ii) The fuel consumption (ml/km/tonne) in two wheel & four wheel trailer has been observed as 38.68 & 29.82 to 31.03 ml/km/tonne, respectively against the declaration of 30.00 to 35.00 ml/km/tonne. It may be looked into for necessary corrective action

18.4 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
a)	Front tyre size	7.50 – 16, 8 PR	6.00 – 16 (Refer P. No. 10 – 16)
b)	Rear tyre size	14.9 – 28, 12 PR	13.6 – 28 & 14.9 – 28 (Refer P. No. 10 – 16)
c)	Rear tyre size (optional)	16.9 - 28	Not available

18.5 Maintenance / Service Problems:

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

18.6 Recommendation with regard to safety on tractor:

The following requirements, inter alia, may be considered for incorporation on the tractor:

- i) Spark arrester should be provided in the exhaust system as per the requirement of IS: 12239 (Part-1)-2018.
- ii) Vertical retainer should be provided on inner side of clutch pedal and inner brake pedal as per IS-12239 (Part-1) 2018.
- iii) Master shield on Power Take-Off shaft should be provided as per IS-12239 (Part-2) – 1999 (Reaffirmed in January 2019)
- iv) Working clearance between position control lever & RHS fender is 45 mm, between position control lever & draft control lever is 35 mm, between range selection lever & LHS fender is 40mm and between PTO engaging lever & hydraulic top cover is 30 mm, as against the minimum requirement of 70 mm as per IS-12239 (Part-2) – 1999 (Reaffirmed in January 2019).
- v) The hand control of PTO engaging lever, engine speed control, transmission control and parking brake should have colour codes as per IS: 8133 – 2021.
- vi) The hand accelerator lever when moved away from the operator (i.e. forward) should increase the engine speed, as per IS: 8133-2021.

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18.7 Adequacy of Literature supplied with machine:


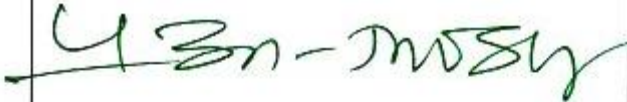
18.7.1 The following literature was supplied with the test sample for reference during the test.

- a) Operator’s manual of tractor models 50 F5 (BRAND NAME – FARMTRAC) and FARMTRAC 6055
- b) Parts catalogue of tractor model 50 F5 (BRAND NAME – FARMTRAC)
- c) Service Manual of tractor model 50 F5 (BRAND NAME – FARMTRAC)

18.7.2 The operator’s manual may be brought out for the guidance of users and service personnel as per IS: 8132-1999 (Reaffirmed in 2019) incorporating, inter alia, the following:

- i) Safe hitch height of the trailer.
- ii) Preparation and maintenance of tractor for wet land operation.

TESTING AUTHORITY:

C.V. CHIMOTE TEST ENGINEER	
P.K. PANDEY DIRECTOR	

Draft test report compiled by: C. K. Tijare, Agricultural Engineer.

19. APPLICANT’S COMMENTS

Para no.	Our reference	Comments
19.1	18.3.1.2	Your comment for fitment of recommended rim size according to IS: 13154 – 2015/ITTAC manual is well taken. We will try to take necessary action in our design to eliminate this gap.
19.2	18.4 & 18.7.2	Observations will be studied and necessary corrective action will be initiated.

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ANNEXURE- I

BRIEF SPECIFICATION OF MATCHING IMPLEMENTS AS DECLARED BY APPLICANT

S. No.	Parameters	Disc Plough	Rotavator (Dryland)
1	Make	Fieldking	Maschio
2	Type	Mounted	Mounted
3	No. of Bottom/ Blades	Three	42 in 8 flanges
4	Type of Bottom / Blades	Plain concave	Hatchet
5	Size of Bottom / Blades, (mm)	615	275 x 75 x 8.0
6	Spacing of Bottoms /Flanges, (mm)	550	200
7	Lower hitch point span, (mm)	805	800
8	Mast height, (mm)	510	600
9	Overall Dimensions, (mm):		
	Length	2360	910
	Width	1080	1630
	Height	1180	1070
10	Gross Mass, (kg)	345	380

ANNEXURE-II

BRIEF SPECIFICATION OF MATCHING CAGE WHEEL AS DECLARED BY APPLICANT

S. No.	Items	Specifications
1	Type	Full cage wheel
2	Diameter, (mm)	1220
3	Width, (mm)	900
4	No. and types of lugs	24, straight lugs made up of MS-angle section welded to angle iron frame.
5	Size of angle section, (mm)	45 x 45 x 5.0
6	Length of lugs, (mm)	445
7	Spacing of lugs, (mm)	310
8	Weight of each cage wheels (kg)	120

ANNEXURE- III

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

S. No.	Item	Trailer-1	Trailer-2
1	Make	Kisan Engineering Works, MIDC, Awadhan Dhule (M.S.)	
2	Model	Kisan 1062	Not available
3	Type of trailer	Semi - Trailer	Semi – Trailer
4	Number of axles	Single	Double
5	Unladen Weight of Trailer, kg	1670	2800
6	Overall dimensions of Trailer, (mm):		
	Overall Width	1870	2140
	Overall Length	4180	5785
	Overall Height	2175	2110
	Wheel Base	Not applicable	2835
	Wheel Track	1600	1740 (Front) & 1765 (Rear)
7	Dimension of fitted Platform, (mm):		
	Length	3040	4225
	Width	1830	2135
	Height from ground	1190	1305
8	Brakes of Trailer	Not provided	Not provided

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ANNEXURE- IV

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS	HOURS
1.	Running-in	25.0
2.	PTO performance test	11.9
3.	Drawbar performance test	16.7
4.	Power lift and hydraulic pump performance test	4.9
5.	Brake test	1.3
6.	Noise measurement	1.5
7.	Mechanical vibration test	1.0
8.	Air cleaner oil pull over test	3.5
9.	Turning ability test	0.5
10.	Location of centre of gravity	0.2
11.	Operators field of vision	0.0
12.	Nominal speed test	0.5
B.	FIELD TEST	
1.	M. B. Plough	11.4
2.	Rotavation	10.9
3.	Puddling (including 5.0 hours water proof test)	15.5
C.	HAULAGE TEST	5.1
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	7.8
TOTAL:		117.7