

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

संख्या/No. : T-1677/2208/2022
माह/Month : September, 2022

[ONLINE TESTING]

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



KUBOTA, MU5502-T 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-1677/2208/2022	KUBOTA, MU5502-T TRACTOR - COMMERCIAL (INITIAL)
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Manufacturer	: M/s. KUBOTA Corporation, Escorts Kubota India Private Limited, 18/4, Mathura Road, Faridabad 121 007, Haryana, India.
Test requested by (applicant)	: M/s. Kubota Agricultural Machinery India Pvt. Ltd., Block No. 94, Tower-1, 8 th Floor, TVH Beliciaa Towers, MRC Nagar, Chennai-600 028, Tamil Nadu, INDIA.
Test requested by (applicant)	: The manufacturer
Selected for test by	: The testing authority
Place of running-in	: At testing Institute
Duration of said running-in, (h):	
- Engine	: 50.0
- Transmission	: Not recommended
Method of Selection	: Initially this tractor model was submitted by the applicant for CMVR test at this Institute. Further, the applicant vide letter no. KAI/BUD/MU5502-4WD/04 dated 18.11.2021 has requested to allow to use the tractor submitted during CMVR test for ICT test also. The Ministry vide letter dated 24.04.2020, has granted exemption for random selection and accordingly the request of applicant was allowed.

1. SPECIFICATIONS

1.1 Tractor:	
Make	: Kubota
Model	: MU5502-T
Brand name, if any	: None
Type	: Rear Wheel Drive, Standard Agricultural Tractor.
Month & year of manufacture	: 03/20
Chassis number	: KBTM64SFELECPC008
Country of origin	: India
1.2 Engine:	
Manufacturer's address	: KUBOTA ENGINE (Thailand) Co., Ltd. 360, Moo3, Khao Hin Son, Phanom Sarakhm, Chachoengsao 24 120, Thailand
Make	: Kubota Engine (Thailand) Co., Ltd.
Model	: V2403-M-DI-TE3
Type	: Four strokes, liquid cooled, turbo charged, direct injection, diesel engine.
Serial number	: BLA3760
Country of origin	: Thailand

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17. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

17.1 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:

Sl. 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
17.1.1	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.	31.7	31.1	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	31.7 (D)	31.1	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	235 (D)	245	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	181.4 (D)	182.0	Yes
e)	Back-up torque, percent	Evaluative	12 percent	35 (D) 12 (R)	34.6	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)	115	Yes
	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.	119 (D)	108	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	2.35 Maximum (R)	0.61	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)	0.10	Yes
17.1.2	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.	25.5 (D) 22.12 Minimum (R)	25.75	Yes

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1	2	3	4	5	6	7	
b)	Max. drawbar pull without 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.	20.8 (D)	20.66	Yes	
				16.08 (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.	27.6 (D)	29.8	Yes	
				24.9 (R) Minimum			
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	120 (D)	86	Yes	
17.1.3 Power lift and hydraulic pump performance:							
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	Tolerance of ± 10%	16.60 (D)	17.05	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.	14.00 (D) 7.32 (R) Minimum	14.72	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	30	Yes	
17.1.4 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 (R)	7.84	Yes
	2)	Hot brake	Evaluative	10	10 (R)	7.91	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	343 to 420	Yes	
c)	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	
17.1.5 Noise measurement:							
a)	Maximum ambient noise emitted by the tractor, dB(A)	Evaluative	As per CMVR	88 (R)	79	Yes	
b)	Maximum noise at operator's ear level, dB(A)	Evaluative	As per CMVR	96 (R)	90	Yes	

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1	2	3	4	5	6	7
17.1.6	Amplitude of mechanical vibrations at:					
	1) Left foot rest	Non Evaluative	100 microns (max.)	100 (R)	66	Yes
	2) Right foot rest				86	Yes
	3) Seat (with driver seated)				51	Yes
	4) Steering wheel				98	Yes
17.1.7	Air cleaner:					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25 (Max.)	Dry type air cleaner fitted		Not applicable
18.1.8	Haulage requirements:					
a)	Gross mass of the trailers, (tonne):					
	Two wheel	Non Evaluative	As specified by the manufacturer	5.0 (D)	5.0	Yes
	Four wheel	Non Evaluative		8.0 (D)	8.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheel	Non Evaluative	As specified by the manufacturer	5.0 ± 1 (D)	4.93 to 4.95	Yes
	Four wheel	Non Evaluative		3.9 ± 1 (D)	4.55 to 4.60	Yes
c)	Fuel consumption, (ml/km/tonne):					
	Two wheel	Non Evaluative	As specified by the manufacturer	40 ± 5 (D)	40.38 to 40.62	Yes
	Four wheel	Non Evaluative		32 ± 5 (D)	27.20 to 27.50	Yes
17.1.9	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 water and/or mud was observed	Yes
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine Oil	-do-				
	5) Transmission Oil	-do-				
17.1.10	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)	Meets the requirement		Yes

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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	Not applicable		
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 kmph		13.85 (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		
17.1.11	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. <table border="1" style="margin: 5px 0;"><tr><td>MM</td><td>YY</td></tr></table> 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.	MM	YY		KUBOTA	Yes
MM	YY								
	2)	Model	Evaluative		MU5502-T	Yes			
	3)	Month & Year of manufacture	Evaluative		03/20	Yes			
	4)	Engine number	Evaluative		BLA3760	Yes			
	5)	Chassis number	Evaluative		KBTM64SFELE CPC008	Yes			
	6)	Maximum PTO power, (kW)	Evaluative	31.7	Yes				
17.1.12	Discard limit for:								
(a)	Cylinder bore diameter, (mm)		Evaluative	To be specified by the manufacturer and supported by the printed literature	87.17	86.997 to 87.039	Yes		
(b)	Clearance between piston & cylinder liner at skirt, (mm)		Non Evaluative		0.30	0.072 to 0.090	Yes		
(c)	Piston diameter at skirt, (mm)		Non Evaluative		86.85	86.945 to 86.949	Yes		
d)	Ring end gap (mm):								
	-	Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	1.25	0.25 to 0.30	Yes		
	-	2 nd comp. ring.			1.25	0.45 to 0.50	Yes		
	-	Oil ring.			1.25	0.25	Yes		
(e)	Ring groove clearance (mm):								
	-	Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.20	0.063 to 0.065	Yes		
	-	2 nd comp. ring.			0.20	0.072 to 0.080	Yes		
	-	Oil ring.			0.15	0.034 to 0.048	Yes		
(f)	Clearance of main bearings (mm):								
	-	Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.40	0.059 to 0.103	Yes		
	-	Crankshaft end float	Evaluative		0.50	0.21	Yes		

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(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.20	0.056 to 0.064	Yes
	-	Axial	Evaluative	-do-	0.75	0.45	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.35	0.104 to 0.124	Yes	
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.35	0.152 to 0.233	Yes	
17.1.13	Literature (Submission to test agency)						
(a)	Operator manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes	
(b)	Parts Catalogue	Evaluative	Provided / Not Provided	Provided	Provided	Yes	
(c)	Workshop/ Service manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes	
17.1.14	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 fitted	Not applicable	
17.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor		Provided	Yes	
17.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR		Provided	Yes	

17.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the Requirements (Yes/No)
1.	Critical	Evaluative	No critical breakdown	None	Yes
2.	Major	Evaluative	Not more than two and neither of them should be repetitive in nature	None	Yes
3.	Minor	Evaluative	Not more than five 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 five, that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes

17.3 Conformity with following IS:

- i) Guidelines for declaration of power and specific fuel consumption and labeling of agricultural tractors (First revision) [IS10273:1987 (Reaffirmed in January,2019)] : Conforms
- ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third revision) [IS:4931-1995 (Reaffirmed in January,2019)] : Conforms
- iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS4468(Part-I):1997/ ISO730-1:1994 (Reaffirmed in 2017)] : Conforms
- iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed October, 2017)] : Conforms
- v) Agricultural tractors- Operator's seat technical requirement [IS12343–2021] : **Does not conform**

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- vi) Guide for safety & comfort of operator of agricultural tractors:Part 1 General requirements (first revision):[IS 12239 (PT-1)-2018 / ISO4254-1:2018] : **Does not conform**
- vii) Tractors and machinery for agriculture and forestry – Technical means for ensuring safety Part 2: Tractors (first revision) (IS 12239 (PT-2) 1999) (Reaffirmed in January,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 and IS: 6283 (Part-2)-2007(Reaffirmed in January,2019)] : **Does not conform**
- x) Agricultural Tractors and Machinery-Lighting device for travel on public roads (IS:14683-1999) (Reaffirmed in January,2019)] : **Conforms**

17.4 Salient Observations:

17.4.1 Laboratory tests:

17.4.1.1 Hydraulic performance test

Angle of rotation of mast over the full range of lift , during lift capacity test at coupled frame, was observed as 9.3 degrees against the minimum requirement of 10 degrees as per IS: 12224-1987 (Reaffirmed 2019). This should be looked into for necessary corrective action.

17.4.1.2 Specifications of Power Take-off Shaft:

In addition to clockwise rotation of PTO shaft, anticlockwise rotation has also been provided in contrast of “clockwise rotation” recommended in Clause No.4 of IS: 4931-1995. The provision of anticlockwise rotation has the potential of rendering the tractor not conforming to IS: 4931- 1995. In this case, it may lead to non-inclusion of tractor in the subsidy list. This should be looked into for necessary corrective action.

In response thereto, the applicant vide letter No. KAI/BUD/MU5502-T/06 dated 08.09.2022 has submitted that “We may prefer to replace reverse PTO by second PTO speed of 751 rpm against rated engine rpm. This will have clockwise rotation with removal and addition following parts: ”

For removal of reverse PTO, the following parts are to be removed:

S. No.	Part No.	Part Name	Qty.
1	TE122-7916-0	Shaft Gear (11-20, R-PTO)	1
2	TC750-7918-0	Shaft Gear (23-13, R-PTO)	1
3	08181-06206	Brng, Ball	2
4	TC750-8036-3	Gear (45, R-PTO)	1

For Secondary PTO speed of 751 rpm (clockwise), the following parts are to be added:

S. No.	Part No.	Part Name	Qty.
1	TE122-7913-0	Shaft Gear (11-14, PTO)	1
2	TC750-8033-3	Gear (41, PTO)	1

Thereby, there would be only one direction of rotation i.e. clockwise for both the PTO speeds viz. 550 rpm and 751 rpm at rated engine speed, which conforms to IS: 4931-1995. Thus, tractor now became IS: 4931-1995 conformant.

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17.4.1.3 Operator's seat:

- 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 470 mm against the requirement of 230 to 460 mm.
- iii) Vertical distance from SIP to centre of differential lock pedal has been measured as 470 mm against the requirement of 230 to 460 mm.
- iv) Longitudinal distance from SIP to centre of steering control wheel has been measured as 580 mm against the requirement of 425 to 525 mm.
- v) Vertical distance from SIP to centre of steering control wheel has been measured as 160 mm against the requirement of 265 to 385 mm.

Above parameters does not meet the requirement of IS: 12343-2021. This should be looked into for necessary corrective action at production level.

17.4.1.4 Operator's work place:

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

Above parameters does not meet the requirement of IS: 12239 (Part-I) 2018. This should be looked into for necessary corrective action at production level.

17.4.1.5 PTO master shield:

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

17.5 Recommendation with regard to safety on tractor:

- i) The PTO shaft master shield has not been provided.
- ii) The working clearance between draft control lever and RHS fender has been measured as 60 mm against the minimum requirement of 70 mm.
- iii) The working clearance between main gear lever and RHS fender has been measured as 50 mm against the minimum requirement of 70 mm.
- iv) The working clearance between PTO clutch lever and LHS fender has been measured as 55 mm against the minimum requirement of 70 mm.
- v) The working clearance between Range selection lever and LHS fender has been measured as 50 mm against the minimum requirement of 70 mm.
- vi) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table – 5 of IS: 8133-2021.
- vii) 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.

Above parameters should be looked into for necessary corrective action.

17.6 Maintenance / Service Problems:

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

17.7 Adequacy of Literature supplied with machine:

17.7.1 The following literatures were supplied with the test tractor for reference during the test: -

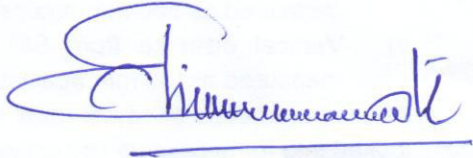
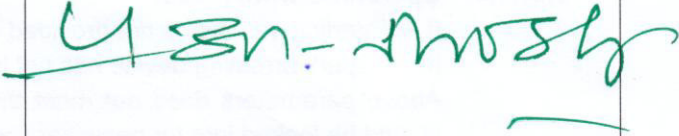
- a) Operator's Manual for "KUBOTA MU5502, MU5502-4WD & MU5502-T" tractor models.
- b) Illustrated Parts List for "KUBOTA MU5502, MU5502-4WD & MU5502-T" tractor models.
- c) Workshop Manual for "KUBOTA MU5502, MU5502-4WD & MU5502-T" tractor models.

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17.7.2 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) Safe hitch height
- ii) Recommended haulage capacity for single axle and double axle trailers.
- iii) Recommended matching implement for different field operations

TESTING AUTHORITY:

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

Draft test report compiled by: **Partha Lodh**, Senior Technical Assistant

18. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant's comments			
18.1	17.4.1.2	We may prefer to replace reverse PTO by second PTO speed of 751 rpm against rated engine rpm. This will have clockwise rotation with removal and addition following parts: "			
		For removal of reverse PTO, the following parts are to be removed:			
		S. No.	Part No.	Part Name	Qty.
		1	TE122-7916-0	Shaft Gear (11-20, R-PTO)	1
		2	TC750-7918-0	Shaft Gear (23-13, R-PTO)	1
		3	08181-06206	Brng, Ball	2
		4	TC750-8036-3	Gear (45, R-PTO)	1
		For addition of secondary PTO speed of 751 rpm (clockwise), the following parts are to be added:			
		S. No.	Part No.	Part Name	Qty.
		1	TE122-7913-0	Shaft Gear (11-14, PTO)	1
		2	TC750-8033-3	Gear (41, PTO)	1

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ANNEXURE-I

BRIEF SPECIFICATION OF MATCHING IMPLEMENTS AS DECLARED BY APPLICANT

S. No.	Parameters	Disc Plough	Rotavator
1	Make	Vasundhara krishi yantra	Kubota
2	Type	Mounted	Mounted
3	No. of Discs / Blades	Three	42 in 8 flanges
4	Type of Discs / Blades	Plain, concave	L shape
5	Size of Discs / Blades, (mm)	660	230 x 75 x 7
6	Spacing of Discs /Flanges, (mm)	510	255
7	Lower hitch point span, (mm)	850	825
8	Mast height, (mm)	390	525
9	Overall Dimensions, (mm):		
	Length	1900	1050
	Width	1090	2065
	Height	1150	1070
10	Gross Mass, (kg)	280	510
11	Working width (cm)	100	180

ANNEXURE-II

BRIEF SPECIFICATION OF MATCHING CAGE WHEEL AS DECLARED BY APPLICANT

S. No.	Parameters	Specification
1	Type	Full cage wheel
2	Outer dia. (mm)	1330
3	Width (mm)	1000
4	No. & Type of Lugs	28, straight lugs made of MS angle section welded to angle iron frame
5	Size of angle section, (mm)	49 x 49 x 5
6	Length of lug, (mm)	490
7	Spacing of lug, (mm)	290
8	Weight of each cage wheel (kg)	160

ANNEXURE-III

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

S. No.	Item	Trailer	Trailer
1.	Type of trailer	Semi - Trailer	Semi – Trailer
2.	Number of axles	Single	Double
3.	Un laden Weight of Trailer, kg	1670	2800
4.	Fully laden Weight of Trailer, Tons (Kg)	Not specified	Not specified
5.	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)
6.	Dimension of fitted Platform, (mm):		
	Length	3040	4225
	Width	1830	2135
	Height from ground	1190	1305
7.	Brakes of Trailer	Not Provided	Not Provided

T-1677/2208/2022	KUBOTA, MU5502-T TRACTOR - COMMERCIAL (INITIAL)
	THIS TEST REPORT IS VALID UPTO: 30/09/2025

ANNEXURE-IV

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	50.0
2.	PTO performance test	13.5
3.	Power lift and hydraulic pump performance test	1.5
4.	Drawbar performance test	20.5
5.	Turning ability& Location of centre of gravity	0.8
6.	Operator's field of vision	--
7.	Brake test	1.5
8.	Noise measurement	1.9
9.	Mechanical vibration test	0.8
10.	Nominal speed test	0.9
B.	FIELD TEST:	
1.	Disc ploughing	10.3
2.	Rotavation	11.3
3.	Puddling (including 5.0 hours water proof test)	15.6
C.	HAULAGE TEST:	6.0
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	12.5
TOTAL:		147.1

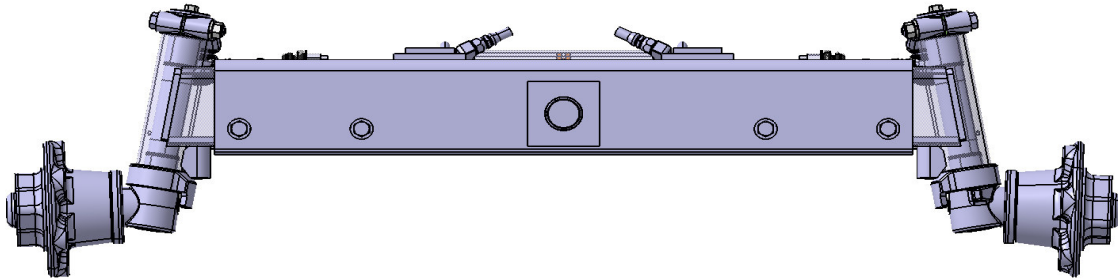
ANNEXURE-V

Fig. : Front axle fitted as standard fitment

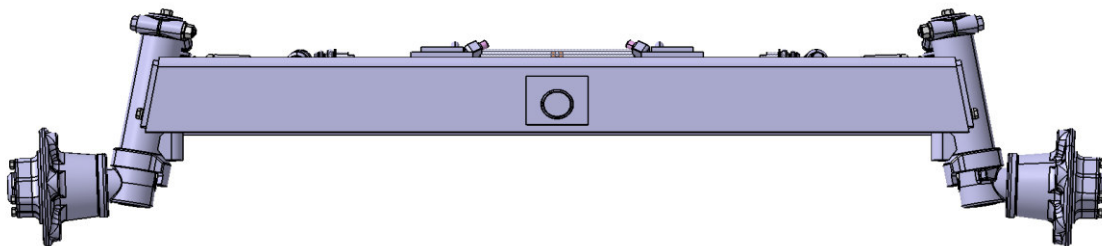


Fig. : Front axle fitted as optional fitment