व्यावसायिक परीक्षण रिपोर्ट (द्वितीय बैच परीक्षण) संख्या/No. : T- 1730/2261/2023

COMMERCIAL TEST REPORT (Second Batch Test) माह/Month : May, 2023

Application Reference No.28/2022-23/30

(यह परीक्षण रिपोर्ट 31/05/2030 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/05/2030)



KUBOTA, A211N 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

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2. FUEL AND LUBRICANTS

2.1 Fuel : The High-speed diesel oil supplied by M/s Indian Oil Corporation

Limited having density of 0.826 g/cc at 15°C was used.

2.2 Lubricants:

S. No.	Particulars	As recommended by the	As used during the test
		manufacturer	
1.	Engine oil	Kubota Genuine or	As recommended
1.		SAE 10W30	
	Transmission, rear	Kubota Super UDT fluid or	Oil originally filled in the
2.	differential, rear axle &	SAE75W80	systems was not changed
	hydraulic system		
3.	Steering housing	SAE90	
4.	Front axle & front final	Kubota Super UDT fluid	
4.	drive	or SAE75W80	
5.	Grease	NLGI-2 or NLGI-1	As recommended

3. SPECIFICATIONS

3.1 Tractor:

Make : KUBOTA Model : A211N

Type : Four wheel drive, standard agricultural

tractor.

Month & Year of manufacture : 05/22

Chassis number : KBTB1NTNLNTE37435

Country of Origin : Thailand

3.2 Engine:

Manufacturer's address : KUBOTA Corporation, 1-2-47, Shikitsu-

Higashi, Naniwa-ku, Osaka – 556-8601,

Japan

Make : Kubota, Japan

Model : D1005

Type : Four stroke, liquid cooled, naturally

aspirated, indirect injection, diesel engine.

Serial number : 1NA7952

Engine speed (Manufacturer's recommended production setting), (rpm):

- Maximum speed at no load : 2820

Low idle speedSpeed at maximum torque1050 to 11501800 to 2000

Rated speed, (rpm):

For PTO useFor drawbar useCountry of Origin2600Japan

3.3 Cylinder & Cylinder Head:

Number : Three
Disposition : Inline, vertical
Bore/stroke, (mm) : 76.0/73.6

Capacity as specified by the : 1001

applicant, (cc)

Compression ratio, (apa) : 24 :1

Type of cylinder head : Monoblock

Type of cylinder liners : Wet, Non-replaceable

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Not provided

Type of combustion chamber : Indirect injection, swirl chamber on piston

crown

Arrangement of valves : Overhead, Inline

Valve clearance (cold / Hot) :

- Inlet valve, (mm) : 0.145 – 0.185 - Exhaust valve, (mm) : 0.145 – 0.185

3.4 Fuel System:

Type of fuel feed system : Gravity & force feed

3.4.1 Fuel tank:

Capacity, (I) : 23.0

Location : Above clutch housing

Provision for draining of sediments/

water

Material of fuel tank : Plastic

3.4.2 Water separator :

Make : TAIYO GIKEN, Thailand

Type : Gravity separation with fuel filter element Location : Between the fuel tank and fuel feed pump

3.4.3 Fuel feed pump:

Make : KYOSAN DENKI, Japan (apa)
Type : Diaphragm operated, cam drive

Model/Group combination No. : Not available Provision of sediment bowl : Not provided

Method of drive : Through cam shaft of fuel injection pump.

3.4.4 Fuel filters:

Make : TAIYO GIKEN, Thailand

Model/Group combination No. : Not available

Number : One
Type of elements : Paper
Capacity of final stage filter, (I) : 0.10

3.4.5 Fuel Injection pump:

Make : BOSCH Corp, Japan

Model/Group combination No. : Zexel, NP-PER 3M-D55 (apa)

Type : Inline, Plunger Serial number : Not available

Method of drive : Through timing gears

3.4.6 Fuel injectors:

Make : BOSCH Corp, Japan

Model/Group combination no. :

Holder No. : Not available

Nozzle Number : 237-Z-NP-DN4PDN165

Type : Pintle

Manufacturer's production pressure

setting, (MPa)

: 13.7 to 14.7

Injection timing : 18 degree before TDC

Firing order : 1-2-3

3.4.7 Governor:

Make : NIHON IET, Japan (apa)

Model/Group combination No. : Not available

Type : Mechanical, centrifugal, variable speed

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16. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

On the basis of tests conducted the performance results have been summarized as evaluative (mandatory) and non-evaluative (not-mandatory) parameter 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.	Cha	aracteristic	Category (Evaluative / Non- Evaluative)	Requirements as per IS: 12207-2019	Values declared by the applicant(D)/ Requirement (R)	As obser- ved	Whether meets the requireme nts (Yes/No)
1		2	3	4	5	6	7
16.1.1	PTC) Performand	e:				
a)	pow 2 h t (Nat cond	test, (kW) tural ambient dition)		Declared value to be achieved with a tolerance of: ± 5% for PTO power or engine power >26 kW, ± 10% for PTO power or Engine power ≤ 26 kW.	11.5 (D)	11.2	Yes
b)	engi (kW		Non- Evaluative	-do-	11.5 (D)	10.2	No
с)	corr to	cific fuel sumption esponding maximum er, (g/kWh)	Evaluative	+ 10% maximum	318 (D)	309	Yes
d)	equi crar	timum ivalent ikshaft ue, (Nm)	Non- Evaluative	± 8%	49.5 (D)	49.6	Yes
e)	torq	k-up ue, percent	Evaluative	12 %, minimum	17.3	32.6	Yes
f)	Max	imum operatii	ng temperature	e, (°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.		113	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.	.00 (5)	105	Yes
g)	Eng cons (g/k)	sumption,	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions		0.29	Yes
h)		oke level,	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value (Asper CMVR)	meter	0.55	Yes

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1		2	3		4	5	6	7
16.1.2	Drav	vbar perform		1	-	<u>-</u>		
a)	Max. pull		Non- Evaluative	М	inimum 70% of static mass with ballast	5.00 (D) 5.62 (R) minimum	7.23	Yes
	to 2	15 percent el slip, (kN)				THE INTEGRAL		
b)	Maxi draw	mum bar pull	Evaluative		linimum 70% of static ass of tractor without	4.70 (D)		Yes
	to 1	out ballast esponding 15 percent el slip, (kN)			ballast	4.12 (R) minimum	5.59	
c)		,	Evaluative	pov i) a in o	ver as referred in SI No. of PTO performance case of tractors having	9.2 (D)	8.9	Yes
				Min pow i) a in trac tota	al static mass > 1500 kg nimum 75 % of PTO ver as referred in SI No. a) of PTO performance case of light weight ctors having ≤1500 kg al static mass of tractor nimum 75 % of the	8.4 (R) minimum		
				in S peri	gine power as referred SI No. i) a) of engine formance in case of ctors which do not have TO shaft.			
d)		mission oil erature,	Evaluative	sho	e declared value buld not exceed the ximum value specified oil company	120 (D)	89	Yes
16.1.3		er lift and hy	draulic pur					
a)					it the range of lift, (kN):			
	1)	At hitch points	Evalua		±10%	6.00 (D)	5.49	Yes
	2)	With the	Evalua	tive	The lift capacity			
		standard			should at least be	3.20 (D)		
		frame			24 kg/PTO kW. and it should be 21.5	2.64 (R)		
					kg/engine kW where the tractor is not provided with a PTO shaft	minimum	4.09	Yes
b)		mum drop					0	Yes
		height of the				11 (D)		
	-	of applications		n	Observed value	50 maximum		
	each				should not exceed			
	interv	val for a to	tal		50 mm.			
	durat minu	tion of 3 te, (mm)	30					

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1	2	3	4	5	6	7
16.1.4	Brake performance	at 25 kmph:			•	•
a)		istance at a for	ce, equal to or less than	600 N on b	rake peda	
	without ballast, (m):			1		1
	Cold brake	Evaluative	10	10	4.21	Yes
	2) Hot brake	Evaluative	10	10	4.73	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N)	Evaluative	600	600 maximum	293 to 311	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 (R)	Yes	Yes
16.1.5	Noise measurement		00 dD (A) for 4.5	05 (D)	70	1 37
a)	Maximum ambient noise emitted by the tractor, dB(A)	Evaluative	88 dB (A) for >1.5 tonne GVW and 85 db (A) for <1.5 tonne GVW (as per CMVR)	85 (R) maximum	78	Yes
b)	Maximum noise at operator's ear level, dB(A)	Evaluative	96 (as per CMVR)	96 (R) maximum	90	Yes
16.1.6	Amplitude of mecha	nical vibratio	ns at:			
	Left foot rest				60	Yes
	2) Right foot rest	Non-	100 : ()	100	97	Yes
	3) Seat (with driver seated)	Evaluative	100 microns (max.)	(max.)	94	Yes
16.1.7	4) Steering Wheel Air Cleaner:				251	No
10.1.7	Max. oil pull over, (%)	Evaluative	0.25% (max.)	Dry type a		Not app-icable
16.1.8	Haulage requiremen	nts:				
a)	Gross mass of the tra	ailers, (tones):				
	Two wheel	Non- Evaluative	As specified by the manufacturer	1.5 (D)	1.5	Yes
b)	Distance travelled /					
	Two wheel	Non- Evaluative	As specified by the manufacturer	6.80 to 8.80 (D)	8.44 to 8.71	Yes
c)	Fuel consumption (cc/km/tonne):				
	Two wheel	Non- Evaluative	As specified by the manufacturer	79.00 to 89.00 (D)	76.56 to 78.98	No
16.1.9	Safety features:		-			
а)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes (As per IS 12239 (Part2)	Meet require	ement	Yes
b)	Lighting arrangement	Evaluative	As per CMVR	Meet require		Yes

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1	2	3	4	5 6	7
с)	Seating requirements (Tractors havin more than 1150 mi rear track width)	~	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
е)	Dimensions of three-point linkage	Non- Evaluative	Should meet the requirements of IS: 4468 (Part-2) (As amended from time to time)	Does not meet the requirement	No
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 app- licable
h)	1) Maximum travelling speed at rated engine speed in reverse gears, kmph		Should not exceed 20 kmph	8.83 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 app- licable

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1		2	3	4		5 6	7
16.1.11	Lal	pelling of tractors	(Provision o	f labelling plate):	1	1
	1)	Make	Evaluative	Should confo	rm to	KUBOTA	Yes
	2)	Model	Evaluative	the requireme	nts of	A211N	Yes
	3)	Month &Year of manufacture	Evaluative	CMVR along maximum	with PTO	05/22	Yes
	4)	Engine number	Evaluative	Power in kW	L	INA7952	Yes
			Evaluative	year of manu			
	5)	Chassis number	Evaluative	in numerical fo	rm.	KBTBINTNLNTE374 35	Yes
	6)	Maximum PTO power, (kW)	Evaluative	MM YY Digit 01 – 12		11.5	Yes
	7)	Specific fuel consumption, g/kWh	Evaluative	No.1for MM represent the rand next two composed to box No.2 for represent the ymanufacturing.	will months ligits in YY will	318	Yes
16.1.12	Dis	card limit for:			Į.		
(a)	•	inder bore meter, (mm)	Evaluative	To be specified by	76.15	76.000 to 76.010	Yes
(b)	pist	arance between ton & cylinder er at skirt, (mm)	Non- Evaluative	the manufacturer and supported by the printed	0.30	0.044 to 0.055	Yes
(c)		ton diameter at rt, (mm)	Non- Evaluative	literature	75.86	75.965	Yes
d)		g end gap, (mm):			•		•
	-	Top comp. ring.		To be	1.25	0.40 to 0.45	Yes
	-	2 nd comp. ring.		specified by	1.25	0.45 to 0.50	Yes
	-	Oil ring.	Evaluative	the manufacturer and supported by the printed literature	1.25	0.35 to 0.40	Yes
(e)	Rin	g groove clearand	ce, (mm):				
, ,	-	Top comp. ring.		To be		Taper rings	
	-	2 nd comp. ring.		specified by	0.15	0.103 to 0.110	Yes
	-	Oil ring.	Evaluative	the manufacturer and supported by the printed literature	0.15	0.043 to 0.045	Yes
(f)	_	arance of main be	earings, (mm		1		1
		Diametrical clearance	Evaluative	To be specified by	0.40	0.077 to 0.088	Yes
		Crankshaft end float	Evaluative	the manufacturer and supported by the printed literature	0.50	0.20	Yes
(g)		earance of big end			1		
		Diametrical	Evaluative	-do-	0.40	0.081 to 0.090	Yes
		Axial	Evaluative	-do-	0.50	0.25	Yes
(h)		arance between g pin and bush, m)	Non- Evaluative	-do-		Not provided	

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1	2	3	4	5	6	7
(i)	Clearance between	Non-	-do-	0.45	0.110 to	Yes
	centre pin and bush,	Evaluative			0.116	
	(mm)					
16.1.13	Literature (Submission	on to test age	ncy)			•
(a)	Operator manual	Evaluative	Provided /	Provided	Provided	Yes
			Not Provided			
(b)	Parts Catalogue	Evaluative	Provided /	Provided	Provided	Yes
			Not Provided			
(c)	Workshop/	Evaluative	Provided /	Provided	Provided	Yes
	Service manual		Not Provided			
16.1.14	Fitment of Roll Over	Protective St	ructures (ROPS)):		•
	For tractor having	Evaluative	ROPS should	d meet the	Not fitted	Not
	more than 1150 mm		requirement o	f IS:1182 o	r	
	rear track width		OECD code	or equivalen	t	applic- able
			International S	tandard		able
16.1.15	Standard	Evaluative	Trailer hitch, fr	ont tow hook	, Provided	Yes
	Accessories		linkage drawb	ar should be	•	
			provided with t	ractor		
16.1.16	Accessories	Non	Ballast weigh	nt, if fitted	, Provided	Yes
	(optional)	Evaluative	should m	neet the	•	
			requirement of	CMVR		
40.0	OATEOORY OF DREA	1/2 011/110 / 22			0 40007 0046	

16.2	CATEGORY OF BREA	KDOWNS / DE	FECTS (As per clause 5.0 of IS	:12207-2019)):
S. No.	Category of break-	Category	Requirements	As	Whether
	downs	(Evaluative /	as per IS: 12207-2019	observed	meets the
		Non-			Require
		Evaluative)			ments
					(Yes/No)
1.	Critical	Evaluative	There is no 'critical	None	Yes
			breakdown' during the		
			course of testing		
2.	Major	Evaluative	There are not more than 1	None	Yes
			major breakdowns and		
			neither of them is of		
			repetitive nature		
3.	Minor	Evaluative	There are not more than 3	None	Yes
			minor defects during the		
			test and the frequency of		
			each is not be more than		
			two		
		Evaluative	In no case, the total number	None	Yes
4.	Total breakdowns		of breakdowns should		
			exceed four, that is, (1		
			major + 3 minor) or4 minor		
			breakdowns.		

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16.3 Salient Observations:

16.3.1 Laboratory tests:

16.3.1.1 PTO Performance Test:

The term "Rated Power" is derived from the expression "Availability of power at rated rpm". Further the rated rpm is defined as "the engine speed specified by the tractor manufacturer for continuous operation at full load". The existing vast difference between declared rated power & observed rated power, therefore, needs to be reduced to the reasonable limit.

16.3.1.2 Drawbar Performance Test:

- i) Maximum drawbar pull with ballast has been recorded as 7.23 kN, whereas the same was observed as 6.11kN during the first batch testing. The observed value is 18.3% higher than the previous model value. Hence, the second batch model does not meet the qualifying performance criteria in comparison to first batch model as per the requirement laid down in clause 7.6 of IS: 12207 2019. This should be looked into for necessary corrective action.
- ii) Maximum drawbar pull without ballast has been recorded as 5.59 kN, whereas the same was observed as 5.19 kN during the first batch testing. The observed value is 7.7% higher than the previous model value. Hence, the second batch model does not meet the qualifying performance criteria in comparison to first batch model as per the requirement laid down in clause 7.6 of IS: 12207 2019. This should be looked into for necessary corrective action.
- iii) Maximum transmission oil temperature has been recorded as 89°C, whereas the same was observed as 80°C during the first batch testing. The observed value is 11.3% higher than the previous model value. Hence, the second batch model does not meet the qualifying performance criteria in comparison to first batch model as per the requirement laid down in clause 7.6 of IS: 12207 2019. This should be looked into for necessary corrective action.

16.3.1.3 Power Lift and Hydraulic Performance Test:

- i) Maximum lifting capacity throughout the range of lift at hitch point has been recorded as 5.49 kN, whereas the same was observed as 6.27 kN during the first batch testing. The observed value is 12.4 % lower than the previous model value. Hence, the second batch model does not meet the qualifying performance criteria in comparison to first batch model as per the requirement laid down in clause 7.6 of IS: 12207 2019. This should be looked into for necessary corrective action.
- ii) Maximum lifting capacity throughout the range of lift with the standard frame has been recorded as 4.09 kN, whereas the same was observed as 4.64 kN during the first batch testing. The observed value is 11.9 % lower than the previous model value. Hence, the second batch model does not meet the qualifying performance criteria in comparison to first batch model as per the requirement laid down in clause 7.6 of IS: 12207 2019. This should be looked into for necessary corrective action.

16.3.1.4 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies marked as (*) in Chapter – 10 of this test report is on higher side. This calls for dampening down of vibrations especially on steering wheel to improve the operational comfort and service life of components.

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16.3.1.5 Drive wheel rims:

T-

- i) The sizes of drive wheel rims were found to be "W6 x 18".
- 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 "W7". An immediate corrective action is required to be taken even in stand point of view with compliance to CMVR, 1989.

16.3.1.6 Operator controls- Symbols / Colour Codes:

- Symbol of rockshaft (basic, up and down) has not been provided as per IS: 6283 (Part-1) 2006 (Reaffirmed 2019).
- ii) Colour codes for engine revolution gauge, fuel level gauge and water temperature gauge are not provided as per IS: 6283 (Part-2) 2007 (Reaffirmed 2019).

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

16.4 Maintenance / Service Problems:

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

16.5 Recommendation with regard to safety on tractor:

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

- i) 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.
- ii) Identification of hand control by colour coding of engine speed control, transmission control, parking brake and differential lock has not been provided as per the requirement as laid down in Table 5 of IS: 8133-2021.
- iii) Hand holds for easy mounting and dismounting has not been provided as per requirement of IS: 12239 (Part -1) 2018.
- iv) Vertical retainer has not been provided at clutch pedal as per requirement of IS: 12239 (Part -1) 2018.
- v) Spark arrester has not been provided in the exhaust system as per IS: 12239 (Part -1) 2018.
- vi) Shield for PTO has not been provided as per IS:12239(Part-2)-1999.
- vii) Working clearance around the PTO engaging lever & range selection gear lever was measured 40 mm against the minimum requirement of 70 mm as per IS:12239(Part-2)-1999.

The observations at S. No. (iii), (v) & (vi) were also made in the previous test report No. T-1138/1664/2018 (March, 2018) and no improvement have been made as regards to its conformity so far. All of the above should be looked into for necessary corrective action.

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- 16.6 Adequacy of Literature supplied with machine:
- **16.6.1** The following literature was supplied with test sample for reference during the test.
 - a) Operator's Manual for Kubota, A211N, A211N-Optional, B2441, B2741 and B2741S tractor models.
 - b) Workshop Manual for Kubota, A211N, A211N-Optional, B2441, B2741 and B2741S tractor models.
 - c) Illustrated Parts List for Kubota, A211N tractor model.
- **16.6.2** 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) Service schedule and grade of steering oil.
 - ii) Safe hitch height while using trailer.
 - iii) Recommended tyre inflation pressure for road & field work not mentioned clearly.

TESTING AUTHORITY:

C.V. CHIMOTE TEST ENGINEER	Mulden over SED V
A. K. UPADHYAY DIRECTOR (I/c)	an

Test report is compiled by: C. K. Tijare, Agricultural Engineer

17. APPLICANT'S COMMENTS

Para no.	Our reference	Comments	
		Nil	

ANNEXURE-I

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

S. No.	Item	Single axle trailer	
1.	Make	SAI FABS, Bangalore	
2.	Model	Not available	
3.	Type of trailer	Semi - Trailer	
4.	Number of axle(s)	Single	
5.	Un laden Weight of Trailer, kg	550	
7.	Overall dimensions of Trailer, (mm):		
	Overall Length	3165	
	Overall Width	1690	
	Overall Height	1100	
	Wheel Base	Not applicable	
	Wheel Track	1520	
8.	Dimension of fitted Platform, (mm):		
	Length	2305	
	Width	1630	
	Height from ground	530	
9.	Brakes of Trailer	Not Provided	

ANNEXURE - II

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	1.3
4.	Drawbar performance test	16.1
5.	Brake test	1.3
6.	Noise measurement	2.5
7.	Mechanical vibration test	0.8
8.	Nominal speed test	1.6
B.	HAULAGE TEST:	9.2
C.	Miscellaneous test and other run hours including idle	7.4
	run, transportation, trials and preparation for test	
	TOTAL:	103.7