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L&k[; k/No. : T-1689/2220/2022

COMMERCIAL TEST REPORT (Initial)

ekg/Month : November, 2022

[Application Reference No. 28/2021-22/61]

(यह परीक्षण रिपोर्ट 30/11/2027 तक वैध है/THIS TEST REPORT IS VALID UPTO 30/11/2027)



TAFE, MF 9500 CRDi TRACTOR



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GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(DEPARTMENT OF AGRICULTURE, CO-OPERATION & FARMERS WELFARE)

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CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

(An ISO 9001 : 2015 Certified Institute)

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

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T-1689/2220/2022	TAFE LTD., MF 9500 CRDi TRACTOR -COMMERCIAL (Initial)
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Manufacturer : M/s. Tractors and Farm Equipment Ltd.
Box No. 3302 Old – 35 (New-77) Mahatma Gandhi Road, Nungambakkam, Chennai - 600034

Location of manufacturing plants (apa) : (i) M/s. TRACTORS AND FARM EQUIPMENT LIMITED
Kalladipatti Plant, 10/205, Kalladipatti (P.O.) Pin Code – 624 201, Dindigul Dist., Tamil Nadu
(ii) M/s. TRACTORS AND FARM EQUIPMENT LIMITED
Doddaballapur Plant, Plot No.1 Kiadb Industrial Area, Doddaballapur, Bangalore – 561 203

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 : 12
- Transmission : 16
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.

Details of tractors made available for random selection	
Sr. No.	Chassis serial Number
1	MEA19453MM1346558
2	MEA19453MM1346462
3	MEA19453MM1346516
4	MEA19453MM1346182
5	MEA19453MM1346038

1. SPECIFICATIONS

1.1 Tractor:
Make : TAFE
Model : MF 9500 CRDi
Type : Rear wheel drive, Standard Agricultural Tractor
Month & year of manufacture : 12/21
Chassis number : MEA19453MM1346038
Country of origin : India

1.2 Engine:
Manufacturer's address : M/s. Simpson & Co. Ltd. Chennai- 02
M/s. Simpson & Co. Ltd., Huzur Garden, Sembiam, Chennai- 11
Make : SIMPSON & Co. Ltd.
Model : TREM IV SJV3259-F53
Type : Four stroke, common rail direct injection, turbo charged, liquid cooled, diesel engine.

	Serial number	:	SJV3259-F5304760000021
	Country of origin	:	India
1.2.1	Engine speed (rpm), (Manufacturer's recommended production settings):		
	- Maximum speed at no load	:	2285 to 2335
	- Low idle speed	:	750 to 850
	- Speed at maximum torque	:	1200 to 1300
	Rated speed, (rpm):		
	- For PTO use	:	2200
	- For drawbar use	:	2200
1.3	Cylinder & Cylinder Head:		
	Number	:	Three
	Disposition	:	Vertical, Inline
	Bore/stroke, (mm)	:	93/127
	Capacity as specified by the applicant, (cc)	:	2590
	Compression ratio	:	17 : 1
	Type of cylinder head	:	Monoblock
	Type of cylinder liners	:	Dry, non replaceable
	Type of combustion chamber	:	Re-entrant cavity on piston crown
	Arrangement of valves	:	Overhead, inline
	Valve clearance (cold/hot):		
	- Inlet valve, (mm)	:	0.3
	- Exhaust valve, (mm)	:	0.4
1.4	Fuel System:		
	Type of fuel feed system	:	Gravity and force feed
1.4.1	Fuel tank:		
	Capacity, (l)	:	65.0
	Location	:	Above engine, under the bonnet
	Provision for draining of sediments/ water	:	Provided
	Material of fuel tank	:	Metallic
1.4.2	Water separator	:	Water separation is provided in secondary (Main filter) fuel filter.
1.4.3	Fuel feed pump:		
	Make	:	Bosch
	Type	:	Vane
	Location	:	Built-in fuel injection pump
	Method of drive	:	Through camshaft of fuel injection pump
1.4.4	Fuel filters:		
	Primary (Pre filter):		
	Make	:	Bosch
	Model/Group combination No.	:	F002 H20 108
	Type of elements	:	Paper
	Number	:	One
	Secondary (Main filter):		
	Make	:	Bosch
	Model/Group combination No.	:	F002 H22 025
	Type of elements	:	Cartridge

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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.	39.5 (D)	39.7	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	34.5 (D)	34.9	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	265 (D)	236	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	275 (D)	264.3	Yes
e)	Back-up torque, percent	Evaluative	12 percent	12 (D)	74.3	Yes
f)	Maximum operating temperature, ($^{\circ}\text{C}$)					
	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.	132 (D)	118	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.	112 (D)	104	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	2.36 Maximum (R)	0.45	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)	0.07	Yes

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1	2	3	4	5	6	7
17.1.2	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.	22.0 (D) 21.62 Minimum (R)	26.3 5	Yes
b)	Max. drawbar pull 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.	18.0 (D) 17.81 (R) Minimum	19.8 1	Yes
c)	Maximum drawbar power with standard ballast, (kW).	Evaluative	Minimum 80 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg Minimum 75 % of PTO power as referred in SI No. i) a) of PTO performance in case of light weight tractors having ≤1500 kg total static mass of tractor Minimum 75 % of the engine power as referred in SI No. i) a) of engine performance in case of tractors which do not have a PTO shaft.	32.0 (D) 31.8 (R) Minimum	33.8	Yes
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	132 (D)	108	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%	16.5 (D)	17.1 1	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.	10.0 (D) 9.34 (R) Minimum	14.2 9	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	395	No

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1	2	3	4	5	6	7
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)	7.20	Yes
	2) Hot brake	Evaluative	10	10 (R)	7.38	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	195 to 380	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)	81	Yes
b)	Maximum noise at operator's ear level, dB(A)	Evaluative	As per CMVR	96 (R)	93	Yes
17.1.6	Amplitude of mechanical vibrations at:					
	1) Left foot rest	Non Evaluative	100 microns (max.)	100(R)	149	No
	2) Right foot rest	Evaluative			137	No
	3) Seat (with driver seated)				159	No
	4) Steering wheel				123	No
17.1.7	Air cleaner oil pull over :					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25 (Max.)	Dry type air cleaner fitted		Not applicable
17.1.8	Haulage requirements :					
a)	Gross mass of the trailers, (tonnes):					
	Two wheel	Non Evaluative	As specified by the manufacturer	5.0 (D)	5.0	Yes
	Four wheel	Non Evaluative		6.0 (D)	6.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheel	Non Evaluative	As specified by the manufacturer	5.5 to 6.5 (D)	4.35 to 4.40	No
	Four wheel	Non Evaluative		6.0 to 7.0 (D)	4.20 to 4.22	No
c)	Fuel consumption, (ml/km/tonne):					
	Two wheel	Non Evaluative	As specified by the manufacturer	33 to 34 (D)	45.5 to 45.9	No
	Four wheel	Non Evaluative		38 to 42 (D)	39.5 to 39.7	Yes

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1	2	3	4	5	6	7	
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)	Manufacturer has recommended that the tractor is not suitable for wetland (puddling) operation. Hence wetland (puddling) test was not conducted	Not applicable
	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)	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 applicable	
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, Kmph	Evaluative	Should not exceed 20 Kmph	(17.05 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 applicable	--	

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1	2	3	4	5	6	7		
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-left: 20px;"> <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	TAFE	Yes
MM	YY							
	2)	Model	Evaluative		MF 9500 CRDi	Yes		
	3)	Month & Year of manufacture	Evaluative		12/21	Yes		
	4)	Engine number	Evaluative		SJV3259-F5304760000021	Yes		
	5)	Chassis number	Evaluative		MEA19453MM1346038	Yes		
	6)	Maximum PTO power, (kW)	Evaluative	39.5	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	93.202	93.012 to 93.033	Yes	
(b)	Clearance between piston & cylinder liner at skirt, (mm)		Non Evaluative		Piston ring groove clearance exceeds 0.25 mm with new rings	0.126 to 0.135	Yes	
(c)	Piston diameter at skirt, (mm)		Non Evaluative		Piston ring groove clearance exceeds 0.25 mm with new rings	92.892 to 92.906	Yes	
d)	Ring end gap (mm):							
	-	Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	1.5	0.40 to 0.45	Yes	
	-	2 nd comp. ring.			1.5	1.00	Yes	
	-	Oil ring.			1.5	0.40	Yes	
(e)	Ring groove clearance (mm):							
	-	Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	--	Tapered rings	Not Applicable	
	-	2 nd comp. ring.			0.25	0.060 to 0.061	Yes	
	-	Oil ring.			0.25	0.045 to 0.047	Yes	

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1	2	3	4	5	6	7	
(f)	Clearance of main bearings (mm):						
	-	Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.50	0.109 to 0.136	Yes
	-	Crankshaft end float	Evaluative		0.75	0.25	Yes
(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.75	0.090 to 0.146	Yes
	-	Axial	Evaluative	-do-	0.75	0.30 to 0.35	Yes
(h)	Clearance between king pin and bush, (mm)		Non Evaluative	-do-	0.35	0.109 to 0.152	Yes
(i)	Clearance between centre pin and bush, (mm)		Non Evaluative	-do-	0.100	0.074 to 0.077	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 provided (D)	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

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17.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
Sl. 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.	(One) Mn-18	Yes
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed five, that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	One	Yes

17.3 Salient Observations:

17.3.1 Laboratory tests:

17.3.1.1 Hydraulic performance test:

Cumulative drop in the height of the point of application of the force after each 5 minutes interval for a total duration of 30 Minutes during lift load maintenance test was recorded as 395 mm, against the maximum allowable drop of 50 mm and does not meet the non-evaluative requirements of IS: 12207 - 2019. This should be looked into for necessary corrective action.

17.3.1.2 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 and RHS 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.

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

- i) Vertical adjustment of operator's seat upward and downward distance from the mid position has been measured as ± 27.5 mm against the requirement of ± 30 mm minimum.
- ii) Provision for adjustment for driver's mass has been recorded as 50 to 120 kg, against the requirement of 40 to 100 kg.
- iii) Vertical distance from seat index point to the centre of accelerator pedal has been measured as 485 mm against the requirement of 230 to 460 mm.
- iv) Longitudinal distance from seat index point to the centre of differential lock pedal has been measured as 225 mm against the requirement of 410 to 420 mm.

17.3.1.4 Specifications of three point linkage:

The transport height was measured as 900 mm against the requirement of 950 mm minimum and does not meet the non-evaluative requirements of IS: 12207 - 2019. This should be looked into for necessary corrective action.


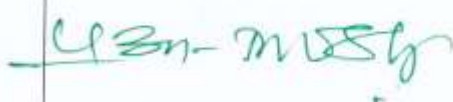
17.3.2 Haulage Test:

- i) The distance covered per litre of fuel consumption has been recorded as 4.35 to 4.40 km/l and 4.20 to 4.22 km/l against the declaration of 5.5 to 6.5 km/l and 6.0 to 7.0 km/l in two wheel and four wheel trailers, respectively. It may be looked into for necessary corrective action
- ii) The fuel consumption (ml/km/tonne) has been recorded as 45.5 to 45.9 ml/km/tonne against the declaration of 33 to 34 ml/km/tonne in two wheel trailer. It may be looked into for necessary corrective action.

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- 17.3.3 Operator's Manual:**
i) The applicant has declared the coolant water ratio as 91.5 : 8.5 vide specification sheet, however 8% coolant and 9.5 % water is given on page No. 27 of Operator's Manual and not matching with the declaration. This should be corrected in the Operator's Manual
- 17.4 Maintenance / Service Problems:**
No noticeable maintenance or service problem was observed during the test.
- 17.5 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 as per IS-12239 (Part-I) 2018.
 - iii) Master shield on Power Take-Off shaft should be provided as per IS-12239 (Part-II) – 1999 (Reaffirmed in January 2019)
 - iv) Working clearance between draft control lever mudguard is 35 mm as against the minimum requirement of 70 mm as per IS-12239 (Part-II) – 1999 (Reaffirmed in January 2019).
 - v) The hand control of differential lock and parking brake control lever should have colour codes as per IS: 8133 – 2021.
- 17.6 Adequacy of Literature supplied with machine:**
- 17.6.1** The following literature was supplied with the test sample for reference during the test.
- a) Operator Instruction Book for TAFE MF 9500 CRDi tractor
 - b) Parts Book for TAFE MF 9500 CRDi tractor
 - c) Workshop Service Manual for TAFE MF 9500 CRDi tractor
- 17.6.2** 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) Recommended gross mass of trailer
 - iii) Specifications of recommended trailer
 - iv) Recommendation that the tractor is not suitable for wet land operation.

TESTING AUTHORITY:

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

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

18. APPLICANT'S COMMENTS

Para no.	Our reference	Comments
18.1	17.3.1.1, 17.3.1.2, 17.3.1.3, 17.3.1.4 & 17.3.2	Parameters will be studied and necessary action will be initiated.
18.2	17.3.3, 17.4, 17.5, 17.6, 17.6.1 & 17.6.2	Parameters will be studied and necessary action will be initiated.

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ANNEXURE- I

BRIEF SPECIFICATION OF IMPLEMENTS USED DURING FIELD TEST

S. No.	Parameters	Disc Plough	Rotavator
1.	Make	Mahindra	Agristar
2.	Type	Mounted	Mounted
3.	No. of Discs / Blades	Three	48 in 9 flanges
4.	Type of Discs / Blades	Plain concave	Hatchet
5.	Size of Discs / Blades, (mm)	655	275 x 80 x 7
6.	Spacing of Discs /Flanges, (mm)	505	260
7.	Lower hitch point span, (mm)	780	820
8.	Mast height, (mm)	460	605
9.	Overall Dimensions, (mm):		
	Length	1950	960
	Width	1340	2265
	Height	1190	1095
10.	Gross Mass, (kg)	355	505

ANNEXURE-II

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
	Un laden Weight of Trailer, kg	1670	2800
5	Overall dimensions of Trailer, (mm):		
	Overall Width	1920	2140
	Overall Length	4250	5785
	Overall Height	2025	2110
	Wheel Base	Not applicable	2835
	Wheel Track	1590	1740 (Front) & 1765 (Rear)
6	Dimension of fitted Platform, (mm):		
	Length	3210	4225
	Width	1905	2135
	Height from ground	1165	1305
7	Brakes of Trailer	Not provided	Provided

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ANNEXURE-III

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	28.5
2.	PTO performance test	31.7
3.	Power lift and hydraulic pump performance test	4.3
4.	Drawbar performance test	25.9
5.	Turning ability	0.5
6.	Location of centre of gravity	0.3
7.	Operator's field of vision	Nil
8.	Brake test	1.8
9.	Noise measurement	1.3
10.	Mechanical vibration test	1.0
11.	Nominal speed test	1.7
B.	FIELD TEST:	
1.	Disc ploughing	16.4
2.	Rotavation	21.4
C.	HAULAGE TEST:	5.3
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	8.5
TOTAL:		148.6