

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

संख्या / No. : T-1656/2187/2022
माह / Month : June, 2022

[ONLINE TESTING]

(यह परीक्षण रिपोर्ट 30/06/2025 तक वैध है।/THIS TEST REPORT IS VALID UPTO : 30/06/2025)



EICHER 280 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
TRACTOR NAGAR, BUDNI (M.P.) 466 445
(An ISO 9001: 2015 Certified Institute)**

E-mail: fmti-mp@nic.in

Web site: <http://www.fmttibudni.gov.in>

Telephone: 07564-299003

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T- 1656/2187/2022	EICHER 280 TRACTOR –Commercial (Initial)
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Manufacturer : **M/s. Eicher Tractors**
(A Unit of TAFE Motors & Tractors Limited;
A Wholly Owned Subsidiary of TAFE)
Plot No. 1, Sector – D, Industrial Area,
Mandideep - 462046
Distt. Raisen (M.P.)

Test requested by (applicant) : The Manufacturer
Selected for test by : The Testing Authority
Place of running-in : At Institute premises
Duration of said running-in, (h):

- Engine : 21
- Transmission : 27

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.

Details of tractors made available for random selection:

S. No.	Chassis Number
(i)	MEA78A1DJM1335970
(ii)	MEA78A1DJM1335998
(iii)	MEA78A1DJM1336014
(iv)	MEA78A1DJM1336044
(v)	MEA78A1DJM1336047

1. SPECIFICATIONS

- 1.1 Tractor:**
- Make : EICHER
Model : EICHER 280
Brand name : None
Variants, if any : None
Type : Four Wheel Driven (4WD), Standard Agricultural Tractor.
Month & Year of manufacture : 09 & 21
Chassis number : MEA78A1DJM1335998
Country of origin : India
- 1.2 Engine:**
- Manufacturer's address : M/s. Mitsubishi Heavy Industries, VST Diesel Engines Pvt Ltd., Plot No. 305, Hebbal Industrial Area, Metagalli, Mysore.
Make : M/s. Mitsubishi Heavy Industries
Model : MVS 3L2-T3CC10
Type : Four stroke, natural aspirated, liquid cooled, indirect injection, diesel engine
Serial number : A48537D1
Year of manufacture : 2021

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15.7 Starter motor & Alternator:

Presence of soil/oil in housing : None
 Condition of bearings and other : Normal
 Components

16. ADJUSTMENTS, DEFECTS, BREAKDOWNS AND REPAIRS

S. No.	Adjustments / Defects / Breakdowns and Repairs	Tractor run hours
---Nil---		

17. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

17.1 On the basis of tests conducted the performance results have been summarized as evaluative (mandatory) / non-evaluation (non-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.	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	14.4 (D)	15.1	Yes
b)	Power at rated engine speed, (kW)	Non-Evaluative	-do-	14.4 (D)	15.1	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+10 percent Max.	330 (D)	317	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non-Evaluative	± 8 percent	65 (D)	68.2	Yes
e)	Back-up torque, percent	Evaluative	12 percent	12 (D)	23.3	Yes
f)	Maximum operating temperature, (°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.	135 (D)	107	Yes
2)	Coolant (water)	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.	120 (D)	98	Yes

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1	2	3	4	5	6	7
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	3.20 (Maximum) (R)	1.07	Yes
h)	Smoke level	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)	0.21	Yes
17.1.2	Drawbar performance:					
a)	Maximum drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non-Evaluative	Minimum 70 percent of static mass with ballast	Ballasting not recommended by the manufacturer	Not applicable	Not applicable
b)	Max. drawbar pull with unballast, as the case may be corresponding to 15 percent wheel slip or 7 percent track slip, (kN)	Evaluative	Minimum 70 percent of static mass of tractor without ballast or as the case may be	6.69 (D) 6.66 (R) (Minimum)	8.39	Yes
c)	Maximum drawbar power with unballast as the case may be, (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.	10.8 (D) 11.3 (R) (Minimum)	12.4	Yes
d)	For tractors fitted with air conditioned /heated cabin: Maximum drawbar power 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)	Max. transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	130 (D)	86	Yes

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1	2	3	4	5	6	7	
17.1.3	Power lift and hydraulic pump performance:						
	1)	At hitch points	Evaluative	[Tolerance of \pm 10%]	6.9 (D)	7.52	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.	4.50 (D) 3.55 (R) (Minimum)	4.94	Yes
b)	Maximum drop in the height of the point of application of the force after each 5 min. interval for a total duration of 30 min/ mm		Non-Evaluative	The observed value should not exceed 50 mm.	50 (D) 50 (R) (Maximum)	0	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 unballasted, (m):						
	1)	Cold brake	Evaluative	10	10 (R)	6.15	Yes
	2)	Hot brake	Evaluative	10	10 (R)	6.22	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² . (N)		Evaluative	600	600 (R)	133 to 177	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 (R)	Yes	Yes
17.1.5	Noise measurement:						
a)	Maximum ambient noise emitted by the tractor at bystanders' position, 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)	78	Yes
b)	Maximum noise at operator's ear level dB(A)		Evaluative	As per CMVR	96 (R)	89	Yes
17.1.6	Amplitude of mechanical vibrations at:						
	1)	Left foot rest	Non-Evaluative	100 microns (max)	100 (D)	78	Yes
	2)	Right foot rest				55	Yes
	3)	Seat (with driver seated)				73	Yes
	4)	Steering Wheel				94	Yes
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	

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1	2	3	4	5	6	7
17.1.8	Haulage requirements:					
a)	Gross mass of the trailers, (tonnes):					
	-Two wheel	Non-Evaluative	--	1.5 (D)	1.5	Yes
	-Four wheel		--	Not recommended	Not applicable	Not applicable
b)	Distance travelled / litre of fuel consumption, (km/l):					
	-Two wheel	Non-Evaluative	--	5 to 8 (D)	6.57 to 6.89	Yes
	-Four wheel		--	Not recommended	Not applicable	Not applicable
c)	Fuel consumption (ml/km/tonnes):					
	-Two wheel	Non-Evaluative	--	75 to 150 (D)	96.71 to 100.6	Yes
	-Four wheel		--	Not recommended	Not applicable	Not applicable
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		The manufacturer has recommended that the tractor is not suitable for wetland cultivation (puddling operation) and therefore, the wetland cultivation (puddling operation) test was not conducted.	--
	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, pullies, silencer, hydraulic pipes (As per IS 12239 (Part-2))		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: 12343-2021		Not applicable as the rear track width of the tractor is less than 1150 mm	Not applicable
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931-1995 (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-2)-1993 (As amended from time to time)		Meets the requirement	Yes
f)	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS:12953-1990		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 fitted	Not applicable

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1	2	3	4	5	6	7	
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 kmph		(10.96 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 provided	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 MM YY Digit 01-12 in box No.1 for MM will represent the months & next two digits in box No.2 for YY will represent the year of manufacturing.	EICHER	Yes
	2)	Model	Evaluative		EICHER 280	Yes
	3)	Month & Year of manufacture	Evaluative		09 & 21	Yes
	4)	Engine number	Evaluative		A48537D1	Yes
	5)	Chassis number	Evaluative		MEA78A1DJ M1335998	Yes
	6)	Declaration of PTO power, kW	Evaluative		14.4	Yes
	7)	Specific fuel consumption, g/kWh	Evaluative		330	Yes

17.1.12	Discard limit for:						
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by Manufacturer	78.20	78.010 to 78.027	Yes	
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non-Evaluative		0.30	0.078 to 0.081	Yes	
(c)	Piston diameter at skirt, mm	Non-Evaluative		77.80	77.945 to 77.949	Yes	
(d)	Ring end gap (mm):						
	-	Top comp. ring.	Evaluative	-do-	1.50	0.35 to 0.40	Yes
	-	2 nd comp. ring.		-do-	1.50	0.55	Yes
	-	Oil ring.		-do-	2.0	0.40 to 0.45	Yes
(e)	Ring groove clearance (mm):						
	-	Top comp. ring.	Evaluative	-do-	0.30	Tapped	--
	-	2 nd comp. ring.	-do-	-do-	0.30	0.070 to 0.072	Yes
	-	Oil ring.	-do-	-do-	20	0.047 to 0.048	Yes
(f)	Clearance of main bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.40	0.038 to 0.042	Yes
	-	Crank shaft end float	Evaluative	-do-	0.80	0.13	Yes

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1	2	3	4	5	6	7	
(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.40	0.034 to 0.056	Yes
	-	Axial	Evaluative	-do-	0.80	0.15 to 0.20	Yes
(h)	Clearance between king pin and bush, (mm)	Non-Evaluative	-do-	Tapper roller bearings are provided		Not applicable	
(i)	Clearance between center pin and bush, (mm)	Non-Evaluative	-do-	0.50	0.090 to 0.104	Yes	
17.1.13	Literature (Submission to test agency):						
(a)	Operator manual	Evaluative	The printed literature in booklet form should be provided as per IS 8132 & should submit along with the test sample	Provided / Not Provided	Provided	Yes	
(b)	Parts Catalogue	Evaluative		Provided / Not Provided	Provided	Yes	
(c)	Workshop/ Service manual	Evaluative		Provided / Not Provided	Provided	Yes	
17.1.14	Fitment of Roll Over Protective Structure (ROPS): for tractors having more than 1150 mm rear track width	Evaluative	ROPS should meet the requirement of IS:11821 or OECD code or equivalent International Standard	Not provided	Not fitted	Not applicable	
17.1.15	Standard accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Provided	Yes	
17.1.16	Accessories (Optional)	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR.	Provided	Not Provided	Not applicable	
17.2	CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):						
S. No.	Category of Breakdown	Category (Evaluative / Non-Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the requirement (Yes/No.)		
1.	Critical breakdown	Evaluative	There is no 'critical breakdown' during the course of testing.	None	Yes		
2.	Major breakdowns	Evaluative	There are not more than 02 major breakdowns and neither of them is of repetitive nature.	None	Yes		
3.	Minor breakdowns	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 5 minor breakdowns.	None	Yes		

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17.3	Conformity with following IS:	
i)	Guide lines for declaration of power and specific fuel consumption and labelling 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 2 Categories 1N (fourth revision) [IS 4468(Part-II):1993/ISO 730-2:1979 (Reaffirmed in 2019)]	: Conforms
iv)	Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed October, 2017)]	: Conforms
v)	Agricultural tractors - Operator's seat technical requirement [IS 12343 –2021].	: Not applicable as the rear track width of the tractor is less than 1150 mm
vi)	Guide for safety & comfort of operator of agricultural tractors: Part 1 General requirements (first revision): [IS 12239 (PT-1)-2018 /ISO 4254-1:2013]	: 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 (first revision) IS: 8133- 1983 (Reaffirmed in January, 2019)]	: Conforms
ix)	Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part 2 Symbols for agricultural tractors and machinery [IS:6283 (Part-1)- 2006 and IS: 6283 (Part-2)- 2007 (Reaffirmed in January, 2019)]	: Conforms
x)	Agricultural Tractors and Machinery - Lighting device for travel on public roads (IS: 14683-1999) (Reaffirmed in January, 2019)]	: Conforms

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17.4 Salient Observations:

17.4.1 Laboratory tests:

17.4.1.1 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies marked as (*) in Chapter-9 of this test report is on higher side. This calls for dampening down of vibrations to improve the operational comfort and service life of components.

17.4.1.2 Three-point linkage:

- (i) The lateral distance from lower hitch point to centre line of the tractor of three-point linkage does not meet the requirement of IS: 4468 (Part-2) Category 1N -Narrow Hitch: 1993 (Re-affirmed in 2019). This should be looked into for necessary corrective action.
- (ii) Some of the parameters of three-point linkages conform to Cat. 1N and some of them conform to Cat. I. Keeping in view the spirit of standardization, necessary improvements may be incorporated.

17.4.1.3 Operator's work place:

Operator's work place meets the requirements of IS: 12239 (Part-I) 2018 (Reaffirmed Oct., 2017), except the following:

- (i) Provision of vertical retainers at inner sides of clutch pedal.
- (ii) Provision of spark arresting device in the exhaust system.

Above parameters does not meet the requirement of 12239 (PT-1) 2018 /ISO 4254-1:2013 This should be looked into for necessary corrective action at production level.

17.4.1.5 Field performance test:

17.4.1.5 Dry land operation:

- (i) During dry land rotavation test with recommended matching rotavator, the maximum depth of operation was observed as 7.0 cm. Upon this, the applicant vide letter No. Nil dated 12.04.2022 has informed that the depth of rotavation is not possible to increase further & requested to continue the rotavation operation with the same matching rotavator.
- (ii) The tractor has no provision for track width adjustment of front & rear wheel, this limits the use of tractor for intercultural operation.

17.4.1.6 Components/ assembly inspection:

During component assembly inspection, the initial thickness of brake lining has been specified as 4.15 to 4.25 mm & similarly, the discard limit for brake lining has been specified as 3.25 mm, which seems to be erroneous. This should to be looked into for corrective action.

17.5 Wet land cultivation (puddling operation):

The manufacturer has recommended that the tractor is not suitable for wetland cultivation (puddling operation) and therefore, the wetland cultivation (puddling operation) was not conducted. Therefore, the fact that the tractor is not suitable for wetland (puddling) operation, cautionary notice regarding non-suitability of tractor for puddling operation may be displayed on the bonnet of the tractor.



17.6 Maintenance / Service Problems:

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

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- 17.7 Recommendation with regard to safety on tractor:**
The following requirements, inter alia, may be considered for incorporation on the tractor:
- (i) Provision of spark arrester in the exhaust system of tractor's engine as per IS: 12239 (Part-I) 2018.
 - (ii) Provision of vertical retainers at inner sides of clutch pedal.
- 17.8 Adequacy of Literature supplied with machine:**
- 17.8.1** The following literature was supplied with the tractor for reference during the testing.
- (i) Operator manual of "EICHER 280" Tractor model.
 - (ii) Service manual of "EICHER 280" Tractor model.
 - (iii) Parts catalogue of "EICHER 280" Tractor model.
- 17.8.2** 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 while using trailer.
 - (ii) Recommended tyre inflation pressure for road & field work.

TESTING AUTHORITY:

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

Draft test report is compiled by: C.S. Raghuwanshi, Agricultural Engineer.

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18. APPLICANT'S COMMENTS

Para no.	Our reference	Comments
18.1	17.4.1.1, 17.4.1.2 (i) & (ii), 17.4.1.3 (i) & (ii) & 17.8.2 (i) & (ii) .	Observation will be studied & necessary action will be initiated.
18.2	17.5	Recommendation will be looked into with respect to design, development & implementation.

ANNEXURE- I

BRIEF SPECIFICATION OF MATCHING IMPLEMENTS AS DECLARED BY APPLICANT

S.No.	Item	M.B. plough	Rotavator
1.	Make	Jai Amravati	Rotoking
2.	Type	Mounted	Mounted
3.	No. of bottom/blades	02	20 blades in 5 flanges
4.	Type of bottom/blades	General purpose	C-type
5.	Size of bottom/blades, (mm)	200	275x80x6
6.	Spacing of bottom/flanges, (mm)	520	185
7.	Lower hitch point span, (mm)	445	430
8.	Mast height, (mm)	400	475
9.	Overall dimensions, (mm):		
	- Length	1040	655
	- Width	690	1170
	- Height	825	945
10.	Gross mass, (kg)	70	185

ANNEXURE-II

BRIEF SPECIFICATION OF MATCHING TRAILER AS DECLARED BY APPLICANT

S.No.	Parameters	Trailer
1.	Make & model of trailer	Kalika Industries & Sonalika
2.	Type of trailer	Semi-Trailer
3.	Number of axles	Single
4.	Un laden weight of Trailer, kg	420
5.	Overall dimension of trailer, (mm)	
	Overall length	3170
	Overall width	1870
	Overall height	1060
	Wheel base	Not applicable
	Wheel track	1650
6.	Dimension of fitted Platform, (mm):	
	Length	2290
	Width	1320
	Height from ground	620
7.	Brakes of trailers	Not provided

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ANNEXURE- III

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	48.0
2.	PTO performance test	13.5
3.	Drawbar performance test	15.8
4.	Power lift and hydraulic pump performance test	3.3
5.	Brake test	1.0
6.	Noise measurement	2.0
7.	Mechanical vibration test	1.0
8.	Turning ability	0.3
9.	Location of centre of gravity	0.5
10.	Operator's field of vision	0.2
11.	Theoretical speed test	2.2
B.	FIELD TEST:	
1.	MB Ploughing	22.3
2.	Rotavation	16.4
C.	HAULAGE TEST:	6.7
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	5.2
	TOTAL:	138.4