

(यह परीक्षण रिपोर्ट 31/05/2025 तक वैध है। / THIS TEST REPORT IS VALID UP TO : 31/05/2025)



**MAHINDRA, 255 DI POWER + TRACTOR  
(Brand Name : Bhoomiputra)**



सत्यमेव जयते

भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय  
कृषि, सहकारिता एवं किसान कल्याण विभाग  
मशीनीकरण एवं प्रौद्योगिकी प्रभाग

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(Department of Agriculture, Cooperation & Farmers Welfare, Mechanization & Technology Division)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान  
ट्रैक्टर नगर, बुदनी (म.प्र.) ४६६ ४४५

**CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE**

(An ISO : 9001 - 2015 Certified Institute)

Tractor Nagar, Budni (M.P.) 466 445

E-mail [fmnti-mp@nic.in](mailto:fmnti-mp@nic.in)

Website : <http://www.fmttibudni.gov.in>

Telephone : 07564 - 234729, 234743

T- 1438/1965/2020	<b>MAHINDRA, 255 DI POWER + TRACTOR</b>
	<b>(BRAND NAME: BHOOMIPUTRA) COMMERCIAL -(1<sup>st</sup> BATCH TEST)</b>
<b>THIS TEST REPORT IS VALID UPTO: 31/05/2025</b>	

## 1. SPECIFICATION

<b>1.1</b>	<b>Tractor:</b>	
	Make	: Mahindra
	Model	: 255 DI Power +
	Brand name	: Bhoomiputra
	Variants, if any	: None
	Type	: Four wheel, Rear-wheel drive, General Purpose, Unit construction, Agricultural Tractor
	Year of manufacture	: J.J
	Chassis number	: MBNAAABFLJRJ00565
	Country of Origin	: INDIA
<b>1.2</b>	<b>Engine:</b>	
	Make	: Mahindra
	Model	: MDI 1500 3A
	Type	: Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine
	Serial number	: RJJ3AAZ0756
	Year of manufacture	: Not available
	Country of origin	: India
<b>1.2.1</b>	<b>Engine speed (rpm), (Manufacturer's recommended production settings):</b>	
	- Maximum speed at no load	: 2250 to 2350
	- Low idle speed	: 750 to 850
	- Speed at maximum torque	: 1100 to 1300
	<b>Rated speed, (rpm):</b>	
	- For PTO use	: 2100
	- For drawbar use	: 2100
<b>1.3</b>	<b>Cylinder &amp; Cylinder Head:</b>	
	Number	: Two
	Disposition	: Vertical, Inline
	Bore/stroke, (mm)	: 88.9 / 120
	Capacity as specified by the applicant, (cc)	: 1490 (apa)
	Compression ratio	: 20.4 : 1 +/-1
	Type of cylinder head	: Monoblock
	Type of cylinder liners	: Wet, Replaceable
	Type of combustion chamber	: Re-entrant bowl
	Arrangement of valves	: Overhead,
	<b>Valve clearance (Cold/Hot):</b>	
	- Inlet valve, (mm)	: 0.40 / 0.30
	- Exhaust valve, (mm)	: 0.50 / 0.40
<b>1.4</b>	<b>Fuel System:</b>	
	Type of fuel feed system	: Gravity and force feed
<b>1.4.1</b>	<b>Fuel tank:</b>	
	Capacity, (l)	: 48.4
	Location	: Above clutch housing
	Provision for draining of sediments/ water	: Drain plug provided at the bottom of fuel tank on RHS.
	Material of fuel tank	: Metallic
<b>1.4.2</b>	<b>Water separator</b>	: <b>Not provided</b>
<b>1.4.3</b>	<b>Fuel feed pump:</b>	
	Make	: Bosch, India
	Type	: Plunger with hand primer
	Model/Group combination No.	: FP/KSG22AD104, F002 A50 038
	Provision of sediment bowl	: Provided
	Method of drive	: Through cam shaft of fuel injection pump

T- 1438/1965/2020	<b>MAHINDRA, 255 DI POWER + TRACTOR</b>
	<b>(BRAND NAME: BHOOMIPUTRA) COMMERCIAL -(1<sup>st</sup> BATCH TEST)</b>
<b>THIS TEST REPORT IS VALID UPTO: 31/05/2025</b>	

**14.4 Salient Observations:**

**14.4.1 Laboratory test:**

		<u>Previous Sample</u>	<u>Present Sample</u>
<b>14.4.1.1</b>	<b>PTO Performance Test:</b>		
i)	The maximum PTO power was recorded as <b>16.0 kW</b> against the declaration of <b>15.8 kW</b> , which meets the requirement of IS: 12207-2014 with regard to tolerance limit.		i) The maximum PTO power was recorded as <b>15.6 kW</b> against the declaration of <b>15.8 kW</b> , which meets the requirement of IS: 12207-2019 with regard to tolerance limit..
ii)	The specific fuel consumption corresponding to maximum power was measured as <b>253 g/kWh</b> against the declaration of 252 g/kWh, which is within the tolerance limit of IS: 12207-2014.		ii) The specific fuel consumption corresponding to maximum power was recorded as <b>255 g/kWh</b> against the declaration of <b>252 g/kWh</b> , which is within the tolerance limit of IS: 12207-2014.
iii)	The maximum equivalent crankshaft torque was recorded as <b>93.8 N-m</b> against the declaration of <b>100 N-m</b> , which meets the permissible limit as specified in IS: 12207-2014.		iii) The maximum equivalent crankshaft torque was recorded as <b>86.2 N-m</b> against the declaration of <b>100 N-m</b> , which does not meet the permissible limit as specified in IS: 12207-2019.
iv)	The backup torque is <b>28.7 %</b> and meet the requirement of IS: 12207-2014		iv) The backup torque is <b>21.6 %</b> and meet the requirement of IS: 12207-2019
<b>14.4.1.2</b>	<b>Drawbar Performance Test:</b>		
	During drawbar performance creeping of tyre over rim was observed as 55 mm & 60 mm for LHS and RHS tyres respectively, which is on higher side and calls for necessary corrective action.		i) During 10 hours drawbar performance test, creeping of LHS & RHS rear tyre over the rims was recorded as <b>10 mm &amp; 15 mm</b> respectively. This should be looked into for necessary corrective action.
<b>14.5</b>	<b>Adequacy of literature:</b>		
	Following literature of tractor model was supplied with the test sample for reference during the test.		
a)	Operator's manual		a) Operator's manual
b)	Parts catalogue		b) Parts catalogue
c)	Service manual		c) Service manual

**15. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS**

**15.1** 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.	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
<b>15.1.1</b>	<b>PTO Performance :</b>					
a)	Max. power under 2 h test, (kW ) (Natural ambient condition)	Evaluative	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.	15.8 (D)	15.6	Yes

T- 1438/1965/2020	<b>MAHINDRA, 255 DI POWER + TRACTOR</b>					
	<b>(BRAND NAME: BHOOMIPUTRA) COMMERCIAL -(1<sup>st</sup> BATCH TEST)</b>					
<b>THIS TEST REPORT IS VALID UPTO: 31/05/2025</b>						

1	2	3	4	5	6	7
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	15.8 (D)	15.6	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% Max.	252 (D)	255	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	± 8%	100(D)	86.2	<b>No</b>
e)	Back-up torque, percent	Evaluative	12 percent, min.	12 (D) 12 (R)	21.6	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.	130 (D)	115	Yes
	2) Coolant (liquid)	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)	101	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.52 (R) Maximum	1.01	Yes
h)	Smoke level, (m <sup>-1</sup> )	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hat ridge value ( <b>As per CMVR</b> )	3.25 (R)	2.68	Yes
<b>15.1.2</b>	<b>Drawbar performance:</b>					
a)	Maximum drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass with ballast	14.85(D) 14.76 (R) Minimum	18.86	Yes
b)	Maximum drawbar pull with standard ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without/ standard ballast	12.00 (D) 11.81 (R) Minimum	14.01	Yes
c)	Maximum drawbar power with <b>standard</b> ballast 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.	12.6(D) 12.5 (R) Minimum	15.0	Yes
d)	Maximum transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company.	110 (D)	78	Yes

T- 1438/1965/2020	<b>MAHINDRA, 255 DI POWER + TRACTOR</b>					
	<b>(BRAND NAME: BHOOMIPUTRA) COMMERCIAL -(1<sup>st</sup> BATCH TEST)</b>					
<b>THIS TEST REPORT IS VALID UPTO: 31/05/2025</b>						

1	2	3	4	5	6	7
<b>15.1.3</b>	<b>Power lift and hydraulic pump performance :</b>					
<b>a)</b>	Maximum lifting capacity throughout the range of lift, (kN):					
1)	At hitch points	Evaluative	±10 percent	11.7 (D)	12.11	Yes
2)	With the standard frame	Evaluative	The lift capacity should at least be 24 kg/PTO kW. and it should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft	7.8 (D) 3.72 Minimum (R)	9.25	Yes
<b>b)</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 minute, (mm)	Non Evaluative	The observed value should not exceed 50 mm	50 (D) 50 (R) Maximum	50	Yes
<b>15.1.4</b>	<b>Brake performance at 25 kmph:</b>					
<b>a)</b>	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)	9.0	Yes
2)	Hot brake	Evaluative	10	10 (R)	9.1	Yes
<b>b)</b>	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s <sup>2</sup> (N)	Evaluative	600	600 (R)	502 to 526	Yes
<b>c)</b>	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)	170 to 180	Yes
<b>15.1.5</b>	<b>Noise measurement :</b>					
<b>a)</b>	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	As per CMVR	88 (R)	78	Yes
<b>b)</b>	Maximum noise at operator's ear level dB(A)	Evaluative	As per CMVR	96 (R)	91	Yes
<b>15.1.6</b>	<b>Amplitude of mechanical vibrations at :</b>					
1)	Left foot rest	Non Evaluative	100 microns (max)	100 (R)	93	Yes
2)	Right foot rest		-do-		84	Yes
3)	Seat (with driver seated)		-do-		243	No
4)	Steering wheel		do-		133	No
<b>15.1.7</b>	<b>Maximum air cleaner oil pull over:</b>	Evaluative	0.25 % (max.)	0.25 % (max.)	0.11%	Yes
<b>15.1.8</b>	<b>Haulage requirements :</b>					
<b>a)</b>	<b>Gross mass of the trailers, (tonne):</b>					
1)	Two wheel	Non	As specified by the manufacturer	3.50 (D)	5.0 (D)	Yes
2)	Four wheel	Evaluative		3.75(D)	3.75(D)	Yes
<b>b)</b>	Distance travelled / litre of fuel consumption, (km/l):					
1)	Two wheel	Non	As specified by the manufacturer	6 to 7(D)	9.27 to 9.51	No
2)	Four wheel	Evaluative		6 to 7(D)	8.89	No
<b>c)</b>	Fuel consumption (ml/km/tonne):					
1)	Two wheel	Non	As specified by the manufacturer	35 to 45 (D)	30.05 to 30.81	No
2)	Four wheel	Evaluative		35 to 45 (D)	29.98	No

T- 1438/1965/2020	<b>MAHINDRA, 255 DI POWER + TRACTOR</b>					
	<b>(BRAND NAME: BHOOMIPUTRA) COMMERCIAL -(1<sup>st</sup> BATCH TEST)</b>					
<b>THIS TEST REPORT IS VALID UPTO: 31/05/2025</b>						

1	2	3	4	5	6	7	
<b>15.1.9</b>	<b>Wetland cultivation :</b>						
	Sealing for the following assemblies:		Evaluative	The identified assemblies should essentially meet the requirement of IS: 11082. No water ingress in the identified assembly given in column-2. If tractor does not meet the requirements of wetland cultivation, it may be recommended for dry land operation only.	There should be no ingress of water and / or mud (R)	No ingress of mud and / or water was observed during ICT vide test report no T- 946/1464/ 2014 (November 2014)	Yes
	1)	Clutch assembly	-do-				
	2)	Brake housings	-do-				
	3)	Front axle hubs	-do-				
	4)	Engine Oil	-do-				
5)	Transmission Oil	-do-					

<b>15.1.10</b>		<b>Safety features :</b>				
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulics pipes(as per IS-12239 Part 2)	Meet the requirements	Yes	
b)	Lighting arrangement	Evaluative	As per CMVR	Meet the requirements	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)	<b>Does not meet the requirements</b>	<b>No</b>	
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meet the requirements	Yes	
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)	Meet the requirements	Yes	
f)	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS 12953 (As amended from time to time)	Meet the requirements	Yes	
g)	Specifications of Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirements 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	12.40 kmph Meet the requirements	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. Not applicable	Not applicable	Not applicable	

T- 1438/1965/2020	<b>MAHINDRA, 255 DI POWER + TRACTOR</b>					
	<b>(BRAND NAME: BHOOMIPUTRA) COMMERCIAL -(1<sup>st</sup> BATCH TEST)</b>					
<b>THIS TEST REPORT IS VALID UPTO: 31/05/2025</b>						

1	2	3	4	5	6	7
<b>15.1.11</b>	<b>Labelling of tractors (Provision of labelling plate):</b>					
	1) Make	Evaluative	Should conform to the requirements of CMVR along-with declared value of PTO in kW and year of manufacture in numerical MM YY Digit 01-12 in box No.1 for MM will represent the month and next two digit in the box No.2 for YY will represent the year of manufacturing		Mahindra	Yes
	2) Model	Evaluative			255 DI Power +	Yes
	3) Month & Year of manufacture	Evaluative			JJ	No
	4) Engine number	Evaluative			RJJ3AAZ0756	Yes
	5) Chassis number	Evaluative			MBNAAABFLJRJ 00565	Yes
	6) Declaration of PTO power, kW	Evaluative			15.8	Yes
	7) Specific fuel consumption (g/kWh)	Evaluative			255	Yes
<b>15.1.12</b>	<b>Discard limit for:</b>					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by Manufacturer	89.13	88.902 to 88.938	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.20	0.129 to 0.131	Yes
(c)	Piston diameter at skirt, mm	Non Evaluative		88.15	88.799 to 88.807	Yes
(d)	<b>Ring end gap (mm):</b>					
	- Top comp. ring.	Evaluative	-do-	2.5	0.35 to 0.40	Yes
	- 2 <sup>nd</sup> comp. ring.		-do-	2.0	0.50 to 0.65	Yes
	- Oil ring.		-do-	2.0	0.40 to 0.50	Yes
(e)	<b>Ring groove clearance (mm):</b>					
	- Top comp. ring.	Evaluative	-do-	0.30	Tapered ring	--
	- 2 <sup>nd</sup> comp. ring.	-do-	0.50	0.30	0.068 to 0.069	Yes
	- Oil ring.	-do-	0.20	0.20	0.041 to 0.047	Yes
(f)	<b>Clearance of main end bearings, (mm):</b>					
	- Diametrical	Evaluative	-do-	0.20	0.038 to 0.061	Yes
	- Crank shaft end float	Evaluative	-do-	0.60	0.15	Yes
(g)	<b>Clearance of big end bearings, (mm):</b>					
	- Diametrical	Evaluative	-do-	0.20	0.078 to 0.124	Yes
	- Axial	Evaluative	-do-	0.75	0.20	Yes
(h)	Clearance between king pin and bush,(mm)	Non Evaluative	-do-	0.30	0.087 to 0.222	Yes
(i)	Clearance between center pin and bush,(mm)	Non Evaluative	-do-	0.30	0.272 to 0.300	Yes
<b>15.1.13</b>	<b>Literature (Submission to test agency):</b>					
(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

T- 1438/1965/2020	<b>MAHINDRA, 255 DI POWER + TRACTOR</b>
	<b>(BRAND NAME: BHOOMIPUTRA) COMMERCIAL -(1<sup>st</sup> BATCH TEST)</b>
<b>THIS TEST REPORT IS VALID UPTO: 31/05/2025</b>	

1	2	3	4	5	6	7
15.1.14	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	Provided	Not fitted	Not applicable
15.1.15	Standard accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Provided	Yes
15.1.16	Accessories (Optional)	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR.	Provided	Provided	Yes

15.2 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 1 major breakdowns and neither of them is of repetitive nature	None	Yes
3.	Minor breakdowns	Evaluative	There are not more than 3 minor defects during the test and the frequency of each is not be more than two	None	Yes
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed four that is, (1 major + 3 minor) or 4 minor breakdowns	None	Yes

**15.3 Salient Observations:**

**15.3.1 Laboratory tests:**

**15.3.1.1 PTO Performance Test:**

- i) The maximum power in case of previous & present sample were observed as **16 & 15.6 kW** against the declaration of **15.8 kW**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- ii) The specific fuel consumption corresponding to maximum power in case of previous & present sample was recorded as **253 & 255 g/kWh** against the declaration of **252 g/kWh**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- iii) The maximum equivalent crankshaft torque was recorded as **86.2 N-m** against the declaration of **100 N-m**, which does not meets the requirement of IS: 12207-2019. This should be looked into for corrective action.
- iv) The backup torque is **21.6 %** and meets the requirement of IS: 12207-2019.

**15.3.1.2 Drawbar performance test:**

- i) The maximum drawbar power under standard ballasted condition was observed as **14.0 & 15.0 kW** against the declaration of **12.6 kW** in case of previous & present sample respectively, which meets the requirement of IS: 12207-2019 with regard to tolerance.
- ii) The maximum drawbar pull corresponding to 15% wheel slip under standard ballasted condition was recorded as **15.09 & 14.01 kN** against the requirement of **11.3 & 12.0 kN** in case of previous & present sample respectively, which meets the requirement of IS: 12207-2019 with regard to tolerance.



T- 1438/1965/2020	<b>MAHINDRA, 255 DI POWER + TRACTOR</b>
	<b>(BRAND NAME: BHOOMIPUTRA) COMMERCIAL -(1<sup>st</sup> BATCH TEST)</b>
<b>THIS TEST REPORT IS VALID UPTO: 31/05/2025</b>	

**15.3.1.3 Hydraulic performance test:**

Total drop in height of lift during lift load maintenance test was recorded as **50 mm** against the preferably maximum requirement of 50 mm, and calls for necessary corrective action.

**15.3.1.4 Air cleaner oil pull over test :**

The maximum oil pull over was recorded as 0.11%, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.

**15.3.1.5 Mechanical Vibration:**

The amplitude of mechanical vibration on various assemblies marked as (\*) in Chapter – 8 of this test report is on higher side especially on steering control wheel and back rest of operator seat. This calls for dampening down of vibrations to improve the operational comfort and service life of components.

**15.3.1.6 Haulage Test:**

- i) Distance travelled per litre of fuel consumption with two wheel and four wheel was recorded as **9.27 to 9.51 km/l** and **8.89 km/l** against the declaration of **6 to 7 km/l** respectively, which does not meet the requirement of IS: 12207-2019. This should be looked into for necessary corrective action.
- ii) Specific fuel consumption (mm/km/tonne) with two wheel and four wheel was recorded as 30.05 to 30.81 **ml/km/tonne** and 29.98 **ml/km/tonne** against the declaration of **35 to 45 ml/km/tonne** respectively. Which does not meet the requirement of IS: 12207-2019. This should be looked into for necessary corrective action.

**15.3.1.7 Labelling plate:**

The month & year of manufacture embossed on the labelling plate as 'JJ', which does not meet the evaluative requirement of IS: 12207-2019. This should be in numerical form on the labelling plate.

**15.4 Maintenance / Service Problems:**

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

**15.5 Recommendation with regard to safety on tractor:**

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

- i) There should be provision for spark arresting device in exhaust system.
- ii) The working clearance around position control lever & draft control lever should be provided as per the relevant standard.
- iii) Hand holds for easy mounting and dismounting of operator .
- iv) Vertical retainness should be provided on both side of foot step and foot pedal.
- v) Width of foot step is less.
- vi) Vertical distance from SIP to foot rest should be provided as per the relevant standard.
- vii) Longitudinal of operator seat forward and reverse from mid position.
- viii) Vertical movement of implement symbol has not been provided.
- ix) The fuel shut-off knob should remain in stop position.

**15.6 Adequacy of Literature supplied with machine:**

**15.6.1** Literature was supplied with the tractor for reference during the test.

- a) Operator's Manual
- b) Part's catalogue
- c) Service Manual

**15.6.2** The supplied literature was found adequate.

**15.6.3** However, these literatures should be brought out in other vernacular languages of India for guidance of users



### 16. Citizen charter

Time frame for testing & evaluation as per citizen charter	Duration of Test	Whether the report released within time frame given in the citizen charter	Remark
10 Months	08 Months (June , 2019 to, January , 2020)	Yes	--None--

### TESTING AUTHORITY:

C.S.RAGUWANSHI  
 AGRICULTURAL ENGINEER

C.V. CHIMOTE  
 TEST ENGINEER

J.J.R. NARWARE  
 DIRECTOR

The report compiled by: **Smt. Dev Vrat Kumar**, Senior Technical Assistant.

### 17. APPLICANT COMMENT'S

Para No.	Our reference	Applicant's comment
17.1	15.6.3	Literatures are available in all languages of India.

T- 1438/1965/2020	<b>MAHINDRA, 255 DI POWER + TRACTOR</b>
	<b>(BRAND NAME: BHOOMIPUTRA) COMMERCIAL -(1<sup>st</sup> BATCH TEST)</b> <b>THIS TEST REPORT IS VALID UPTO: 31/05/2025</b>

**ANNEXURE – I**

**TRACTOR RUN HOURS DURING TEST**

<b>A.</b>	<b>LABORATORY AND TRACK TESTS</b>	<b>HOURS</b>
1.	Running-in	45.0
2.	PTO Performance Test	11.0
3.	Power lift and hydraulic pump performance test	2.5
4.	Drawbar performance test	15.7
5.	Brake test	1.0
6.	Noise measurement	1.2
7.	Air cleaner oil pull over test	3.5
8.	Mechanical vibration test	1.0
9.	Nominal speed test	0.6
<b>B.</b>	<b>HAULAGE TEST</b>	5.6
<b>C.</b>	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	5.39
<b>TOTAL:</b>		<b>92.4</b>