व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) संख्या/No. : T-1643/2174/2022

COMMERCIAL TEST REPORT (Initial) माह/Month : April, 2022

[ONLINE TESTING]

(यह परीक्षण रिपोर्ट 30/04/2025 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/04/2025



MAHINDRA, 415 DI XP PLUS TRACTOR



भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय

(कृषि, सहकारिता एवं किसान कल्याण विभाग)

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

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

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

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Page 1 of 48

MAHINDRA, 415 DI XP PLUS TRACTOR -COMMERCIAL (Initial)

THIS TEST REPORT IS VALID UPTO: 30/04/2025

1. SPECIFICATIONS

1.1 Tractor:

Make : Mahindra

Model : 415 DI XP PLUS Brand name, if any : BHOOMIPUTRA

Type : Rear Wheel Drive, Standard Agricultural

Tractor.

Month & year of manufacture : 08/21

Chassis number : MBNGAAVKBMRE01437

Country of origin : India

1.2 Engine:

Manufacturer's address : M/s. Mahindra & Mahindra Limited

(Farm Equipment Sector)

Agri Business Development Center, Khatima Panipat Highway, Udham Singh Nagar, Vil. Lalpur, Tehsil-Kichha, Rudrapur – 263 153

Make : Mahindra Model : MM27423AH

Type : Four stroke, direct injection, naturally

aspirated, liquid cooled, diesel engine.

Serial number : RMD5FGA1054

Country of origin : India

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

Maximum speed at no load
Low idle speed
Speed at maximum torque
2150 to 2350
750 to 850
1200 to 1500

Rated speed, (rpm):

- For PTO use : 2000 - For drawbar use : 2000

1.3 Cylinder & Cylinder Head:

Number : Four

Disposition : Vertical, Inline
Bore/stroke, (mm) : 88.9/110
Capacity as specified by the : 2730

applicant, (cc)

Compression ratio : 19.8 : 1
Type of cylinder head : Monoblock
Type of cylinder liners : Wet, replaceable

Type of combustion chamber : Re-entrant cavity on piston head

: Provided

Arrangement of valves : Overhead, inline

Valve clearance (cold/hot):ColdHot- Inlet valve, (mm): 0.40.3- Exhaust valve, (mm): 0.50.4

1.4 Fuel System:

Type of fuel feed system : Gravity and force feed

1.4.1 Fuel tank:

Capacity, (1) : 48.5

Location : Above clutch housing

Provision for draining of sediments/

water

Material of fuel tank : Metallic

MAHINDRA, 415 DI XP PLUS TRACTOR -COMMERCIAL (Initial)

THIS TEST REPORT IS VALID UPTO: 30/04/2025

18. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

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:

SI. No.		aracteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the require- ments (Yes/No)
1		2	3	4	5	6	7
18.1.1	PTO	Performance	:				ı
a)	unde (kW) ambie	(Natural ent condition)	Evaluative	Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine ≤ 26 kW.	27.9 (D)	29.2	Yes
b)	engir (kW)		Non- Evaluative	-do-	27.9 (D)	29.2	Yes
с)	cons corre maxi (g/kV		Evaluative	+ 10% max.	244 (D)	251	Yes
d)	cranl	mum valent kshaft le, (Nm)	Non Evaluative	± 8%	179 (D)	170.3	Yes
e)	perce		Evaluative	12 percent	21 (D) 12 (R)	22.4	Yes
f)	Maxi	mum operating	temperature	e, (⁰ 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)	104	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)	Engin const (g/kW	umption,	Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	2.49 Maximum (R)	0.313	Yes
h)	Smok	ce 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)	0.25	Yes

1		2	3	4	5	6	7
18.1.2	Drav	wbar performan	ce:				
a)	with corr 15 p	t. drawbar pull ballasted esponding to percent wheel (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	17.30 (D) 16.73 Minimum (R)	20.21	Yes
b)	with corr 15 p	c. drawbar pull out ballast esponding to percent wheel (kN)	Evaluative	Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be.	12.63 (D) 8.85 (R) Minimum	12.88	Yes
c)		,	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.	22.32 (D) 23.4 (R) Minimum	- 23.7	Yes
d)	tran tem	timum smission oil perature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	120 (D)	78	Yes
18.1.3				performance:			
a)	1)	timum lifting ca At hitch points	pacity through Evaluative	nout the range of lift, (kN): Tolerance of ± 10%	14.6 (D)	13.84	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.	10.20 (D) 6.87 (R) Minimum	10.89	Yes
b)	the point app force minutes for dura	timum drop in height of the lit of lication of the e after each 5 lutes interval a total ation of 30 lutes, (mm)	Non Evaluative	The observed value should not exceed 50 mm	50 (D) Maximum	40	Yes

1		2	3		4		5	6	7
18.1.4		ke performan							
a)		imum stopping	g distance at	a force, equa	al to	or less than	600 N on br	ake peda	al with
		ballast, (m):	F al ati . a	1	10		10 (D)	0.00	\/
	1) 2)	Cold brake Hot brake	Evaluative Evaluative		10 10		10 (R)	6.38	Yes Yes
b)		timum force			10		10 (R)	6.36 170	165
D)		brake pedal t					600 (R)		
		eleration of 2.5		Evaluativ	e	600	Maximum	to	Yes
			, ,				Maximani	206	
c)	Whe	ether parking	brake is						
-,		ctive at a force			'e	Yes / No	Yes	Yes	Yes
		pedal (s) or	· 400 N at	Evaluativ	Ū	1007110	100	100	100
		d lever							
18.1.5		se measurem				1			1
a)		kimum ambi		Evaluative	Э	As per	88 (R)	84	Yes
		tted by the trac	` ,			CMVR			
b)		kimum noise a	it operator's	Evaluative	Э	As per	96 (R)	92	Yes
		level, dB(A)				CMVR			
18.1.6		plitude of med		rations at:					
	1)	Left foot rest						144	No
	2)	Right foot res	st			100 microns	100	188	No
	3)	Seat (with dr	iver seated)	Non Evaluati	Non Evaluative		(R)	152	No
	4)	Steering whe	el	(max.)			268	No	
18.1.7	Air	cleaner:					I		I
	Max	imum air clea	ner oil pull	Evaluative)	0.25	0.25	0.09	Yes
		r, (%)				(Max.)	(Max.)		
18.1.8		lage requiren							
a)		ss mass of the	trailers, (tor						ı
	TWC	wheel		Non Evaluative	As	specified	5.0 (D)	5.0	Yes
	Fou	r wheel		Non		by the	7.0 (D)	7.0	\/
				Evaluative	ma	nufacturer	7.0 (D)	7.0	Yes
b)		tance travelle	d / liter of fu	iel consump	tion	, (km/l):			
	Two	wheel		Non			5.0	6.57	No
				Evaluative	As	specified	to 6.0 (D)	to	
	Fou	r wheel				by the	5.0	6.78 5.82	
	1 00	WIICCI				nufacturer	to 6.0	to	No
			_	Evaluative			(D)	6.09	
c)		l consumptio	n, (ml/km/to	nne):					
	Two	wheel		Non			30 to 35	29.50	
				Evaluative	As	specified	(D)	to	No
	Fou	r wheel				by the	25 to 30	30.46 23.49	
	ı ou	I WIIGGI		Non	manufacturer		25 to 30 (D)	23.49 to	No
				Evaluative			(-)	24.52	

1		2		3	4	5	6	7
18.1.9	Wet	tland cultivation	:					
	Sea follo 1)	wing assemblies: Clutch	Evaluative -do-	The identified assemblies should essentially meet the requirement of IS:	There			
	2)	assembly Brake	-do-	11082. No water ingress in the	no ingress of		ress of and/or	
	3)	housings Front axle	-do-	identified assembly given in column-2. If tractor does not	water and/or	mud observ	was ed	Yes
	4)	hubs Engine Oil	-do-	meet the requirements of	mud (R)			
	5)	Transmission Oil	-do-	wetland cultivation, it may be recommended for dry land operation only.				
18.1.10	Safe	ety features :						•
a)	Gua mo\ part	ing and hot	Evaluative	Belt drives, pulleys hydraulic pipes (A 12239 (Part2)		Meets to require		Yes
b)	_	nting Ingement	Evaluative	As per CM\	/R	Meets to require		Yes
c)	(Tra	ting requirements ctors having more 1 1150 mm rear k width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)		Does meet require	the	No
d)	requ PTC	hnical uirements for D shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)		Meets to require	ment	Yes
е)		ensions of three nt linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)		Meets t require		Yes
f)		cifications of age drawbar	Evaluative	Should meet the re of IS: 12953 (As from time to time)		Meets t require		Yes
g)		nging drawbar erever fitted)	Evaluative	Should meet the r of IS: 12362 (Pa amended from time	art 3) (As	Not pro	vided	Not appli- cable
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, Kmph	Evaluative	Should not exceed 20 Kmph		11. (Meets require	s the ment)	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		Not fi	itted	Not appli- cable

1		2	3	4	5	6	7
18.1.11	La	belling of tractor	s (Provision	of labelling plate):			
	1)	Make	Evaluative	Should conform to	M	ahindra	Yes
	2)	Model	Evaluative	the requirements of	415 D	I XP PLUS	Yes
	3)	Month &	Evaluative	CMVR along with maximum PTO Power		08/21	
		Year of		in kW and year of			Yes
		manufacture		manufacture in			
	4)	Engine	Evaluative	numerical form.	RM0	5FGA1054	Yes
		number	Falatia	MM YY	MONIOA	AV/ZDMDE04	Vaa
	5)	Chassis number	Evaluative	Digit 01 – 12 in box	MBNGA	AVKBMRE01 437	Yes
	6)	Maximum	Evaluative	No.1		27.9	Yes
	0)	PTO power,	Lvaluative	for MM will represent		21.5	163
		(kW)		the months and next two digits in box No.2			
				for YY			
				will represent the year			
				of			
18.1.12	Dia	 scard limit for:		Manufacturing.			
(a)		linder bore	Evaluative			88.907	
(α)		meter, (mm)	Lvaldative		89.13	to	Yes
		,		To be specified by		88.913	
(b)	Cle	earance		the manufacturer		0.084	
		tween piston &	Non	and supported by	0.20	0.064 to	Yes
	,	inder liner at	Evaluative	the printed literature		0.089	163
		rt, (mm)					
(c)		ston diameter at	Non		88.81	88.822	V
	SKI	rt, (mm)	Evaluative			to 88.826	Yes
d)	Rin	ng end gap (mm)	\ <u>•</u>			00.020	
,	-	Top comp. ring.	/ -			0.30	Yes
		. op copg.			2.5	to	
				To be specified by		0.35	
	-	2 nd comp. ring.		the manufacturer	2.5	0.30	Yes
			Evaluative	and supported by		to	
				the printed literature		0.35	
	-	Oil ring.			2.0	0.30	Yes
						to	
(e)	Dir	ng groove cleara	nco (mm):			0.35	
(6)	-	Top comp. ring.	(!!!!!!).		0.30	Tappered	
	-	2 nd comp. ring.		To be specified by	0.30	0.064	Yes
		Z Comp. mg.		the manufacturer	0.30	to	162
			Evaluative	and supported by		0.066	
	-	Oil ring.		the printed literature	0.20	0.045	Yes
		3			-	to	
						0.046	
(f)	Cle	earance of main	bearings (mı				
	-	Diametrical		To be specified by		0.085	
		clearance	Evaluative	the manufacturer	0.20	to	Yes
		Cronkshaft and		and supported by		0.091	
	-	Crankshaft end float	Evaluative	the printed literature	0.50	0.12	Yes
		πυαι		iileialuie		j	

MAHINDRA, 415 DI XP PLUS TRACTOR -COMMERCIAL (Initial) THIS TEST REPORT IS VALID UPTO: 30/04/2025

1	2	3	4	5	6	7
(g)	Clearance of big er	nd bearings,	(mm):			
	- Diametrical	Evaluative	-do-	0.20	0.094 to 0.099	Yes
	- Axial	Evaluative	-do-	0.75	0.20 to 0.25	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.30	0.097 to 0.106	Yes
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.30	0.096 to 0.122	Yes
18.1.13	Literature (Submis	sion to test a	igency)			
(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
18.1.14	Fitment of Roll Ove	er Protective	Structures (ROF	PS):		
	For tractor having	Evaluative	ROPS should	meet the		Not
	more than 1150 mm rear track width		requirement of OECD code or International Sta	equivalent	Not fitted	appli cabl e
18.1.15	Standard Accessories	Evaluative	Trailer hitch, hook, linkage should be pro tractor		Provided	Yes
18.1.16	Accessories (optional)	Non Evaluative	Ballast weight, should me requirement of 0	et the	Provided	Yes

18.2	CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):						
SI. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the Require- ments (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		

18.3 Conformity with following IS:

i) Guide lines for declaration of power and specific fuel consumption : and labeling of agricultural tractors (First revision) [IS10273: 1987 (Reaffirmed in January, 2019)]

Conforms

MAHINDRA, 415 DI XP PLUS TRACTOR -COMMERCIAL (Initial)

THIS TEST REPORT IS VALID UPTO: 30/04/2025

ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 : Conforms and 3 (third revision) [IS:4931-1995 (Reaffirmed in January, 2019)]

iii) Agricultural wheeled tractors - Rear mounted three-point linkage: : Conforms Part 1 Categories 1, 2, 3 & 4 (fourth revision) [IS 4468(Part-I):1997/ISO 730-1:1994 (Reaffirmed in 2017)]

iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 : Conforms (Reaffirmed October, 2017)]

v) Agricultural tractors - Operator"s seat technical requirement [IS : Does not 12343 –1998 (First revision) (Reaffirmed in January, 2019)] conform

vi) Guide for safety & comfort of operator of agricultural tractors: Part : Does not 1 General requirements (first revision): [IS 12239 (PT-1) -2018 conform /ISO 4254-1:2018]

vii) Tractors and machinery for agriculture and forestry – Technical: Does not means for ensuring safety Part 2: Tractors (first revision) (IS conform 12239 (PT-2) 1999) (Reaffirmed in January, 2019)]

viii) Guide lines for location and operation of operator controls on agricultural tractors and machinery (first revision) IS: 8133- 1983 conform (Reaffirmed in January, 2019)]

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)]

x) Agricultural Tractors and Machinery - Lighting device for travel on : Conforms public roads (IS: 14683-1999) (Reaffirmed in January, 2019)]

18.4 Salient Observations:

18.4.1 Laboratory tests:

18.4.1.1 Operator's Seat:

- i) Width of seat has been measured as 435 mm against the minimum requirement of 450 mm.
- ii) Seat longitudinal adjustment forward and rearward from the position has been measured as ± 135 mm against the minimum requirement ± 25 mm & optimum ± 100 mm.
- iii) Longitudinal distance from seat index point to the centre of steering control wheel has been measured as 595 mm against the requirement of 425 to 525 mm.

Above parameters does not meet the requirement of IS: 12343-1998, (Re-affirmed in January, 2019). This should be looked into for necessary corrective action at production level.

18.4.1.2 Operator's work place:

Operator's work place meets the requirements of IS: 12239 (Part-I) 1996 (Reaffirmed Oct., 2017), **except the following:**

- i) Vertical retainer has not been provided on inner side of clutch pedal.
- ii) Width of foot step has been measured as 155 mm against the requirement of 200 mm.
- iii) Spark arresting device has not been provided in the exhaust system.

Above parameters does not meet the requirement of IS: 12239 (Part-I) 1996 (Reaffirmed Oct., 2017). This should be looked into for necessary corrective action at production level.

18.4.1.3 PTO master shield:

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

Conforms

MAHINDRA, 415 DI XP PLUS TRACTOR -COMMERCIAL (Initial)

THIS TEST REPORT IS VALID UPTO: 30/04/2025

18.4.1.4 Operator's Manual:

- The model of tractor has been specified as "415 DI XP Plus" vide specification sheet. Whereas, the same has been specified as "415 XP Plus" vide P. No. 3-1 to 3-3 of Operator's manual.
- The oil change period of air cleaner has been specified as "after every 50 hours or earlier if required in arduous condition" vide specification sheet. Whereas, the same has been specified as "at every 250 hours or earlier" vide P. No. 21-1 of Operator's manual.

18.5 Maintenance / Service Problems:

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

18.6 Recommendation with regard to safety on tractor:

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

- The working clearance around draft control lever and RHS fender has been measured as 45 mm should be provided as per the requirement of IS: 12239 (Part-2) - 1999. (Reaffirmed in January, 2019).
- 2) 1999, (Reaffirmed in January, 2019)..

 Fuel shut off knob should remains in stop as per the requirement of position IS:8133-1983 (Re-affirmed in January, 2019).

18.7 Adequacy of Literature supplied with machine:

- 18.7.1 The following literatures were supplied with the test tractor for reference during the test:-
 - Operator Manual for "Mahindra 265 DI XP Plus & Mahindra 415 DI XP Plus" tractor models.
 - b) Parts catalogue for "Mahindra 415 DI XP Plus" tractor models" tractor model.
 - Service manual for "Mahindra 265 DI XP Plus & Mahindra 415 DI XP Plus" tractor models.
- 18.6.2 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:
 - Safe hitch height while using trailer.
 - ii) Coolant water ratio.

TESTING AUTHORITY:

C.V. CHIMOTE TEST ENGINEER	Municianismund
P. K. PANDEY DIRECTOR	43n-mosh

Draft test report compiled by: Pratyush Satya, Senior Technical Assistant

19. APPLICANT COMMENT'S

Para No.	Our Reference	Applicant's comments			
19.1	18.4.1.1(i, ii & iii), 18.4.1.2 (i, ii & iii), & 18.6 (i & ii).	Parameters will be studied and necessary action will be taken.			
19.2	18.4.1.4 (î & ii) & 18.6.2	Observation will be studied and necessary corrective action for improvement in the manuals will be ensured.			

MAHINDRA, 415 DI XP PLUS TRACTOR -COMMERCIAL (Initial)

THIS TEST REPORT IS VALID UPTO: 30/04/2025

ANNEXURE- I BRIEF SPECIFICATION OF MATCHING IMPLEMENTS AS DECLARED BY APPLICANT

S. No.	Parameters	Disc Plough	Rotavator	Puddler
1	Make	Farmking	Mahindra	Not available
2	Type	Mounted	Mounted	Mounted
3	No. of Discs / Blades	Two	30 in 5 flanges	12 (6 in 2 gangs)
4	Type of Discs / Blades	Plain concave	Hatchet	Notched
5	Size of Discs / Blades, (mm)	655	220 x 75 x 7	460
6	Spacing of Discs /Flanges, (mm)	495	240	165
7	Lower hitch point span, (mm)	760	800	680
8	Mast height, (mm)	480	640	500
9	Overall Dimensions, (mm):			
	Length	1480	970	1190
	Width	1060	1510	1810
	Height	1180	1100	1330
10	Gross Mass, (kg)	200	200	240
11	Working width (cm)	2 x 30	125	210

ANNEXURE-II BRIEF SPECIFICATION OF HALF CAGE WHEEL AS DECLARED BY APPLICANT

Sr.No.	Items	Specification
1	Туре	Half cage wheel
2	Outer dia. (mm)	1200
3	Width (mm)	360
4	No. & Type of Lugs	14, straight lugs made of MS angle section
		welded to angle iron frame
5	Size of angle section, (mm)	50 x 50 x 5
6	Length of lug, (mm)	360
7	Spacing of lug, (mm)	260
8	Weight of each cage wheel, (kg)	100

ANNEXURE-III BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

SI No.	Item	Trailer	Trailer	
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	
5.	Un laden Weight of Trailer, kg	1670	2800	
6.	Fully laden Weight of Trailer, Tons (Kg)	4000	5500	
7.	Overall dimensions of Trailer, (mr	n):		
	Overall Width	1870	2140	
	Overall Length	4180	5785	
	Overall Height	2175	2110	
	Wheel Base	Not applicable	2835	
	Wheel Track	1600	1740(Front) &1765(Rear)	
8.	Dimension of fitted Platform, (mm	n):		
	Length	3040	4225	
	Width	1830	2135	
	Height from ground	1190	1305	
9.	Brakes of Trailer	Not Provided	Not Provided	

MAHINDRA, 415 DI XP PLUS TRACTOR -COMMERCIAL (Initial) THIS TEST REPORT IS VALID UPTO: 30/04/2025

ANNEXURE-IV

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	60.0
2.	PTO performance test	12.6
3.	Power lift and hydraulic pump performance test	4.3
4.	Drawbar performance test	17.2
5.	Turning ability	0.5
6.	Location of centre of gravity	0.5
7.	Operator's field of vision	
8.	Brake test	1.8
9.	Air cleaner oil pull over test	3.5
10.	Noise measurement	1.0
11.	Mechanical vibration test	0.8
12.	Nominal speed test	0.6
B.	FIELD TEST:	
1.	Disc ploughing	10.7
2.	Rotavation	10.8
3.	Puddling (including 5.0 hours water proof test)	15.1
C.	HAULAGE TEST:	5.0
D.	Miscellaneous test and other run hours including idle run,	11.8
	transportation, trials and preparation for test	
	TOTAL:	151.2