

व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT (Initial)

संख्या/No. : T-1627/2158/2022
माह/Month : February, 2022

(यह परीक्षण रिपोर्ट 28/02/2025 तक वैध है / THIS TEST REPORT IS VALID UPTO 28/02/2025)
[ONLINE TESTING]



MAHINDRA, NOVO 605 DI 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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(An ISO 9001 : 2015 Certified Institute)

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1. SPECIFICATIONS

- 1.1 Tractor:**
 Make : Mahindra
 Model : Novo 605 DI
 Type : Rear Wheel Drive, Standard Agricultural Tractor.
 Month & year of manufacture : 04/21
 Chassis number : MBNWHHDBYMNA00007
 Country of origin : India
- 1.2 Engine:**
 Manufacturer's address : M/s. Mahindra & Mahindra Limited
 (Farm Equipment Sector), MIDC Area,
 Hingna Road, Nagpur – 440016
 (Maharashtra)
 Make : Mahindra
 Model : MTMSC35NA055TR4
 Type : Four stroke, common rail direct injection,
 naturally aspirated, liquid cooled, diesel
 engine.
 Serial number : NMA5SCE0004
 Country of origin : India
- 1.2.1 Engine speed (rpm), (Manufacturer's recommended production settings):**
 - Maximum speed at no load : 2225 to 2375 (Power Mode)
 - Low idle speed : 800 to 900
 - Speed at maximum torque : 1000 to 1300
Rated speed, (rpm):
 - For PTO use : 2100
 - For drawbar use : 2100
- 1.3 Cylinder & Cylinder Head:**
 Number : Four
 Disposition : Vertical, Inline
 Bore/stroke, (mm) : 96/122
 Capacity as specified by the applicant, (cc) : 3532
 Compression ratio : 17.2 (± 0.5) : 1
 Type of cylinder head : Monoblock
 Type of cylinder liners : Wet, replaceable
 Type of combustion chamber : Re-entrant cavity on piston head
 Arrangement of valves : Overhead, inline
Valve clearance (cold/hot):

	Cold	Hot
- Inlet valve, (mm)	0.3	0.4
- Exhaust valve, (mm)	0.4	0.5
- 1.4 Fuel System:**
 Type of fuel feed system : Gravity and force feed
- 1.4.1 Fuel tank:**
 Capacity, (l) : 61.0
 Location : Above clutch housing
 Provision for draining of sediments/
 water : Provided
 Material of fuel tank : Metallic

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16. ADJUSTMENTS, DEFECTS, BREAKDOWNS AND REPAIRS

Sl. No.	Adjustments/Defects/Breakdowns and Repairs	Tractor run hours
	-None-	

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.	36.4 (Power Mode) (D)	37.9	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	36.4 (Power Mode) (D)	37.9	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	264 (Power Mode) (D)	258	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	217 (D)	206.5	Yes
e)	Back-up torque, percent	Evaluative	12 percent	21 (D) 12 (R) Minimum	22.1	Yes
f)	Maximum operating temperature, ($^{\circ}$ 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)	126	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.	110 (D)	105	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.	2.56 Maximum (R)	0.28	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 per meter Maximum (R)	0.17	Yes	
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.	22.00 (D)	25.41	Yes	
				20.83 Minimum (R)			
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.	17.6 (D)	21.38	Yes	
				17.23 (R) Minimum			
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.	29.12 (D)	33.0	Yes	
				29.8 (R) Minimum			
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	120 (D)	86	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%	21.6 (D)	20.49	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.	13.20 (D)	12.96	Yes
8.92 (R) Minimum							
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	00	Yes	

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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)	6.91	Yes
	2)	Hot brake	Evaluative	10	10 (R)	7.85	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	175 to 210	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)	91	Yes
17.1.6	Amplitude of mechanical vibrations at:						
	1)	Left foot rest	Non Evaluative	100 microns (max.)	100 (R)	72	Yes
	2)	Right foot rest				32	Yes
	3)	Seat (with driver seated)				30	Yes
	4)	Steering wheel				80	Yes
17.1.7	Air cleaner:						
	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, (tonne):						
	Two wheel		Non Evaluative	As specified by the manufacturer	5.0 (D)	5.0	Yes
Four wheel		Non Evaluative	8.0 (D)		8.0	Yes	
b)	Distance travelled / liter of fuel consumption, (km/l):						
	Two wheel		Non Evaluative	As specified by the manufacturer	5.04 to 5.24 (D)	4.50 to 4.65	Yes
Four wheel		Non Evaluative	4.26 to 4.30 (D)		3.95 to 4.26	Yes	
c)	Fuel consumption, (ml/km/tonne):						
	Two wheel		Non Evaluative	As specified by the manufacturer	39.20 to 39.65 (D)	43.04 to 44.49	No
Four wheel		Non Evaluative	29.01 to 29.32 (D)		29.32 to 29.92	No	

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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)	No ingress of water and/or mud was observed	Yes
	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)	Meets the requirement		Yes	
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	17.23 (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 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: 5px auto;"><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	Mahindra	Yes
	MM	YY						
	2)	Model	Evaluative		NOVO 605 DI	Yes		
	3)	Month & Year of manufacture	Evaluative		04/21	Yes		
	4)	Engine number	Evaluative		NMA5SCE0004	Yes		
	5)	Chassis number	Evaluative		MBNWHHDBYMNA0007	Yes		
6)	Maximum PTO power, (kW)	Evaluative	36.4		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	96.522	96.000 to 96.003	Yes		
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.50	0.086 to 0.090	Yes		
(c)	Piston diameter at skirt, (mm)	Non Evaluative		95.600	95.913 to 95.917	Yes		
(d)	Ring end gap (mm):							
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	1.5	0.30 to 0.40	Yes		
	- 2 nd comp. ring.			2.5	0.90 to 0.95	Yes		
	- Oil ring.			2.0	0.45 to 0.50	Yes		
(e)	Ring groove clearance (mm):							
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.30	--Tapped--	--		
	- 2 nd comp. ring.			0.30	0.090 to 0.095	Yes		
	- Oil ring.			0.25	0.048 to 0.054	Yes		
(f)	Clearance of main bearings (mm):							
	- Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.30	0.085 to 0.091	Yes		
	- Crankshaft end float	Evaluative		0.80	0.27	Yes		

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1	2	3	4	5	6	7	
(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.20	0.071 to 0.081	Yes
	-	Axial	Evaluative	-do-	0.75	0.10 to 0.15	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.20	0.041 to 0.053	Yes	
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.20	0.131 to 0.135	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 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	

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.	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

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17.3 Salient Observations:

17.3.1 Laboratory tests:

17.3.1.1 Hydraulic Performance:

The maximum tilt angle of mast from vertical over the full range of lift was observed as 8.5 degrees against the minimum requirement of 10 degree as per IS: 12224-1987. 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-8 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.

17.3.1.3 Operator's Seat:

- i) Longitudinal distance from seat index point to the centre of differential lock pedal has been measured as 150 mm against the requirement of 355 to 770 mm.
- ii) Longitudinal distance from seat index point to the centre of steering control wheel has been measured as 390 mm against the requirement of 425 to 525 mm.
- iii) Vertical distance from seat index point to the centre of clutch & brake pedal has been measured as 350 mm respectively, against the requirement of 380 to 620 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.

17.3.1.4 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 on inner side of clutch pedal has not been provided.
- ii) Spark arrester in the exhaust system has not been provided.

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.

17.4.1.5 Constructional requirement with regard to safety:

Meets the requirements of IS: 12239 (Part-II)-1996 (Re-affirmed in January, 2019), except the following:

- i) PTO master shield has not been provided.
- ii) The working clearance around position and draft control lever has been measured as 50 mm against the minimum requirement of 70 mm.

Above parameters does not meet the requirement of IS: 12239 (Part-II)-1996 (Re-affirmed in January, 2019). This should be looked into for necessary corrective action at production level.

17.3.1.6 Specifications of Power Take-off Shaft:

In addition to clockwise rotation of PTO shaft, anticlockwise rotation has also been provided in contrast of "clockwise rotation" recommended in Clause No.4 of IS: 4931-1995. The provision of anticlockwise rotation has the potential of rendering the tractor not conforming to IS: 4931-1995. In this case it may lead to non-inclusion of tractor in the subsidy list. This should be looked into for necessary corrective action.

In response thereto, the applicant vide letter No. FD/BVH/ICT/T4N605/21-22/11 dated 02.03.2022 has submitted that "to meet the IS: 4931-1995 requirement, we have decided to remove Gear Driven PTO reverse idler (Part No. 006515367U1) and Fork-2 Speed PTO (Part No. 006515372U1)" and thereby there would be only one direction of rotation i.e. clockwise, and which conforms to IS: 4931-1995 was allowed. Thus tractor now became IS:4931-1995 conformant.

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17.3.1.7 PTO master shield:

PTO master shield not provided on tractor as per the requirements of IS: 4931-1995 (Reaffirmed in 2004). This should be looked into for necessary corrective action.

17.3.1.8 Haulage Test:

The specific fuel consumption with two and four wheel trailer was recorded as **43.04 to 44.49 & 29.32 to 29.92 ml/km/tonne**, respectively against the declaration of 39.20 to 39.65 & 29.01 to 29.32 ml/km/tonne respectively. This should to be looked into for necessary corrective action.

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) Longitudinal distance from seat index point to the centre of differential lock pedal has been measured as 150 mm against the requirement of 355 to 770 mm.
- ii) Longitudinal distance from seat index point to the centre of steering control wheel has been measured as 390 mm against the requirement of 425 to 525 mm.
- iii) Vertical distance from seat index point to the centre of clutch & brake pedal has been measured as 350 mm respectively, against the requirement of 380 to 620 mm.
- iv) Vertical retainers at both sides of clutch pedal should be provided.
- v) Spark arrester should be provided in the exhaust system as per the requirement of IS: 12239 (Part-2)-1999 (Re-affirmed in January, 2019).
- vi) The working clearance between position and draft control lever of hydraulic system was measured as 50 mm against the minimum requirement 70 mm as per IS: 12239 (Part-2)-1999 (Re-affirmed in January, 2019).
- vii) Master shield of PTO shaft should be provided as per the requirement of IS: 4931-1995 (Re-affirmed in January, 2019).

17.6 Adequacy of Literature supplied with machine:

17.6.1 The following literatures were supplied with the test tractor for reference during the test:-


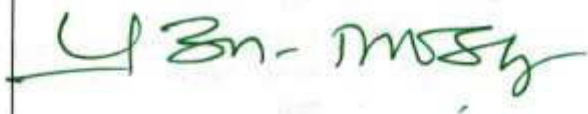
- a) Operator Manual for "Mahindra Arjun/Novo Trem IV" tractor models.
- b) Parts catalogue for "Mahindra Novo 605 DI & Mahindra Novo 655 DI PP 4WD" tractor models.
- c) Service manual (Part-I and Part-II) for "Mahindra Novo 605 DI & Mahindra Novo 655 DI PP 4WD" tractor models.

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17.6.2 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) Safe hitch height while using trailer.
- ii) Coolant water ratio.
- iii) "CARE Button" for convenience of the farmers.
- iv) Technical information related to creeper unit in the part catalogue & service manual.

TESTING AUTHORITY:

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

Draft test report is compiled by: **Pramod Yadav**, Agricultural Engineer.

18. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
18.1	17.3.1.1, 17.3.1.3 (i),(ii) & (iii), 17.3.1.4 9 (i) & (ii) and 17.3.1.5 (ii)	Parameters will be studied and necessary action will be initiated.
18.2	17.3.1.6	The applicant vide letter No. FD/BVH/ICT/T4N605/21-22/11 dated 02.03.2022 has submitted that "to meet the IS:4931 requirement, we have decided to eliminate the anticlockwise PTO option by removing Gear Driven PTO reverse idler (Part No. 006515367U1) and Fork-2 Speed PTO (Part No. 006515372U1)" which was allowed.
18.3	17.6.2 (i)	We will study further and necessary action will be decided.
	17.6.2 (ii)	We will study requirement and necessary details will be incorporated in the operator's manual.
	17.6. (iv)	It is observed that the details of creeper unit is not available in the "Parts Catalogue & Service Manual" submitted to the institute. The applicant vide letter No. FD/BVH/ICT/T4N605/20-22/10 dated 25.02.2022 stated that details of creeper unit is available in the revised copy of product literature.

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ANNEXURE-I

BRIEF SPECIFICATION OF IMPLEMENTS USED DURING FIELD TEST

S. No.	Parameters	Disc Plough	Rotavator	Roto puddler
1	Make	Farmking	Mahindra	Escorts
2	Type	Mounted	Mounted	Mounted
3	No. of Discs / Blades	Two	36 in 8 flanges	46
4	Type of Discs / Blades	Plain concave	Hatchet	Hatchet
5	Size of Discs / Blades, (mm)	655	265 x 85 x 8	225 x 45 x 6.6
6	Spacing of Discs /Flanges, (mm)	495	325	NA
7	Lower hitch point span, (mm)	760	785	755
8	Mast height, (mm)	480	595	660
9	Overall Dimensions, (mm):			
	Length	1480	970	2045
	Width	1060	1690	940
	Height	1180	1105	1215
10	Gross Mass, (kg)	200	450	385

ANNEXURE-II

BRIEF SPECIFICATION OF HALF CAGE WHEEL

Sr.No.	Items	Specification
1	Type	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

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	47.0
2.	PTO performance test	13.5
3.	Power lift and hydraulic pump performance test	3.5
4.	Drawbar performance test	22.3
5.	Turning ability	0.5
6.	Location of centre of gravity	0.4
7.	Operator's field of vision	--
8.	Brake test	2.5
9.	Noise measurement	2.3
10.	Mechanical vibration test	0.5
11.	Nominal speed test	1.1
B.	FIELD TEST:	
1.	Disc ploughing	10.8
2.	Rotavation	10.8
3.	Puddling (including 5.0 hours water proof test)	15.3
C.	HAULAGE TEST:	5.2
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	9.3
	TOTAL:	145.0