प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1772/2303/2023 INITIAL COMMERCIAL TEST REPORT माह/Month : September, 2023

Application Reference No. 28/2022-23/115

(यह परीक्षण रिपोर्ट 30/09/2023 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/09/2023)



Make of Agricultural Tractor: Mahindra

Model : NOVO 655 DI PP 4WD V1
Manufactured by : Mahindra & Mahindra Limited,

(Farm Equipment Sector) Mahindra Research Valley, Mahindra World City, Plot no. 41/1, Anjur

P.O., District: Chengalpattu - 603 004.



### 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)

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THIS TEST REPORT IS VALID UPTO: 30/09/2023

### **IMPORTANT INFORMATION**

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide a OM No. 13-17/2021-M&T(I&P) dated 28.07.2022, that since 15<sup>th</sup> August, 2022, only mandatory tests will be carried out on a tractor unless applicant has expressly requested for optional tests as well, mentioned in the above captioned OM.

In the instant case, there is no request from the applicant to carry out the optional tests hence only Mandatory Tests, as given below, have been conducted and reported in this report: -

- 1. PTO performance
- 2. Hydraulic performance
- 3. Drawbar performance
- 4. Brake performance

Month: September Test Report No.: T-1772/2303/2023 Year: 2023



# GOVERNMENT OF INDIA CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE TRACTOR NAGAR, BUDNI (MADHYA PRADESH) 466445, INDIA

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### MAHINDRA, NOVO 655 DI PP 4WD V1 - INITIAL COMMERCIAL TEST T-1772/2303/2023 THIS TEST REPORT IS VALID UPTO: 30/09/2023

[C] Tractor manufacturer's name and M/s. Mahindra & Mahindra Limited address (Farm Equipment Sector) Mahindra Research Valley, Mahindra World City, Plot no. 41/1, Anjur P.O., District Chengalpattu - 603004. [D] Location of other manufacturing Mahindra & Mahindra Limited (Farm plants Equipment Sector) Akurli Road, Kandivali (E), Mumbai -400 101 ii) MIDC Hingna Road, Nagpur- 440 028 Khatima Panipat Highway, Rudrapur, iii) Udhamsingh Nagar – 263 153 Jaipur Ajmer Road, Jaipur- 303 007 iv) Near Bidar "T" Junction, Mahindra v) Nagar, Zaheerabad- 502 220 Mahindra Research Valley, Mahindra vi) World City, Plot no. 41/1, Anjur P.O., District Chengalpattu – 603 004 [C] Submitted for test by (Applicant) The Manufacturer Selected for test by The Ministry vide OM No. 13-17/2021 - M&T (I&P) dated 28.07.2022, has allowed the applicant to submit the test sample directly to the Institute without requiring any random selection for Initial Commercial Testing. Thus, the applicant directly submitted the test sample to the Institute for test. At manufacturer's works [D] Place of running-in [D] Duration of running-in (h): -Engine 30 -Transmission 32 Location of test Government of India. Central Farm Machinery Training and Testing Institute, P.O. - Tractor Nagar, BUDNI - 466445 (M.P.), INDIA

### 1. SPECIFICATIONS OF TRACTOR

1.1	Identification:
1.1.1	Denomination

Make of tractor : Mahindra

: NOVO 655 DI PP 4WD V1 [C] Model (trade name)

[C] Type : Four Wheel Drive, Standard Agricultural Tractor.

[C] Month & year of manufacture 12/22 Country of origin [D] India

1.1.2 **Numbers:** 

1<sup>st</sup> Serial No. of prototype : MBNWHBF93NNG00001 [D] [C] Serial No. : MBNWHBF93NNJ00010

### MAHINDRA, NOVO 655 DI PP 4WD V1 - INITIAL COMMERCIAL TEST

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### 6. 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: 12207-2022 for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

SI. No.	0.		Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirem- ents (Yes/No)	
1		2	3	4		6	7	
				inistry's Office Memorandum	No. 13-17/	2021-M&	T (I&P)	
		d 28 <sup>th</sup> of July, 2	2022).					
6.1.1		Performance:	<del></del>					
a)	Maximum power under 2 h test, (kW) (Natural ambient 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.	44.0 (D)	44.3	Yes	
b)		er at rated ne speed,	Non Evaluative	-do-	44.0 (D)	44.3	Yes	
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)		Evaluative	Should not be more than 10% of declared value.	264 (D)	275	Yes	
d)	Maximum equivalent crankshaft torque, (Nm)		Non Evaluative	± 8%	277 (D)	254.6	Yes	
e)	Back-up torque, percent		Evaluative	Should be min. 12%	25 (D) 12 (R)	26.5	Yes	
f)		mum operating		<sup>o</sup> C):				
	1) Engine oil		Evaluative	The declared value should not exceed the Max value specified by the oil company and the observed value under natural ambient/high ambient condition should not exceed the declaration.	135 (D)	134	Yes	
	2)	Coolant	Evaluative	Observed value should not exceed the declared value or boiling point of coolant at radiator cap pressure whichever is lower. The boiling point of the coolant at radiator pressure shall be provided by the applicant.	110 (D)	110	Yes	
g)	Engine oil consumption, (g/kWh)		Evaluative	Not exceeding 1% of SFC at Max power under natural ambient condition. The value would be based on the test conducted under natural ambient condition	2.75 Maximum (R)	0.50	Yes	
h)	Smol	ke level, m⁻¹	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value ( <b>As per CMVR</b> ). Max Smoke level shall be reported out of 6 readings tested as per IS 12062 and observed value should be well within the required limits.	3.25 per meter Maximum (R)	0.05	Yes	

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### MAHINDRA, NOVO 655 DI PP 4WD V1 - INITIAL COMMERCIAL TEST

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1	2	3	4	5	6	7
6.1.2	Drawbar performa	nce:				
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	25.6 (D)	*	*
b)	Max. drawbar pull with standard ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	In case of tractors having total static mass ≥ 1500 kg, Min 70% of static mass of tractor without ballast or with standard ballast, as the case may be.  In case of light weight tractors having ≤ 1500 kg total static mass of tractor, Min. 65% of static mass of tractor without ballast or with standard ballast, as the case may be.	23.2 (D) 26.48 (R) Minimum	31.46	Yes
с)	Maximum drawbar power without 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.	35.2 (D) 35.4 (R) Minimum	38.5	Yes
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the recommendation by the oil manufacturer. The observed value should not exceed the declared value throughout the drawbar test.	120 (D)	100	Yes

<sup>\*</sup>Applicant vide letter no. FD/BVH/ICT/NOVO655PP4WDV1/23-24/07, dated 22.08.2023 has requested not to conduct the ballasted drawbar performance test & ten-hour drawbar test which was allowed as per the additional guidelines for testing of tractors as per new regime of testing of tractors vide an OM No. 13-32/2023-M&T(I&P) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test under standard ballasted condition was conducted only.

6.1.3	Pov	Power lift and hydraulic pump performance:									
a)	Max	Maximum lifting capacity throughout the range of lift, (kN):									
	1)	At hitch	Evaluative	Should not be less than 90%	26.5 (D)	26.63	Yes				
		points		of declared value.	23.85 (R)						
					Minimum						
	2)	With the	Evaluative	The lift capacity should at	19.1 (D)	19.28	Yes				
		standard		least be 24 kg/PTO kW and it	10.43 (R)						
		frame		should be 21.5 kg/engine kW	Minimum						
				where the tractor is not							
				provided with a PTO shaft.							

### MAHINDRA, NOVO 655 DI PP 4WD V1 - INITIAL COMMERCIAL TEST

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1 2 3 4 5 6 7  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)  6.1.4 Brake performance at 25 kmph:  a) Maximum drop in Non The observed value should 50 (D) Maximum of the force after each 5 minutes interval for a total duration of 30 Minutes, (mm)  6.1.4 Brake performance at 25 kmph:	Yes
the height of the point of application of the force after each 5 minutes interval for a total duration of 30 Minutes, (mm)  6.1.4 Brake performance at 25 kmph:	
point of application of the force after each 5 minutes interval for a total duration of 30 Minutes, (mm)  6.1.4 Brake performance at 25 kmph:	
of the force after each 5 minutes interval for a total duration of 30 Minutes, (mm)  6.1.4 Brake performance at 25 kmph:	
interval for a total duration of 30 Minutes, (mm)  6.1.4 Brake performance at 25 kmph:	
duration of 30 Minutes, (mm)  6.1.4 Brake performance at 25 kmph:	
Minutes, (mm)  6.1.4 Brake performance at 25 kmph:	
6.1.4 Brake performance at 25 kmph:	
, and the second of the second	ith road
ballast, (m):	
1) Cold brake Evaluative 10 10 (R) 8.54	Yes
2) Hot brake Evaluative 10 10 (R) 8.63	Yes
b) Whether parking Evaluative Yes / No Yes Yes	Yes
brake is effective	
at a force of 600 N	
at foot pedal (s) or	
400 N at hand	
lever	
6.1.5 OPTIONAL TESTS:	
As the applicant has not applied for any optional tests, therefore no optional te	sts was
conducted.	
6.1.6 Safety features :	
a) Guards against Evaluative Belt drives, pulleys, Meets the	Yes
moving and hot silencer, hydraulic pipes requirement	
parts [As per IS 12239 (Part2)]	
b) Lighting Evaluative As per CMVR Conforms	Yes
arrangement	
c) Seating Non Should meet the Does not	No
requirements Evaluative requirements of IS: 12343 meet the requirement	it
(Tractors having (As amended from time to	
more than 1150 time)	
mm rear track	
width)	
d) Technical Non Should meet the Meets the	Yes
requirements for Evaluative requirements of IS: 4931 requirement	
PTO shaft (As amended from time to	
time)	
e) Dimensions of Non Should meet the Does not	No
three point linkage   Evaluative   requirements of IS: 4468   meet the requirement	ıt
(Part-I) (As amended from	
time to time)	
f) Specifications of Non Should meet the Meets the	Yes
linkage drawbar   Evaluative   requirements of IS: 12953 (As   requirement	
amended from time to time)	N1-4
g) Swinging drawbar Non Should meet the Not provided	Not
(wherever fitted) Evaluative requirement of IS: 12362	appli
(Part 3) (As amended from	-cabl
time to time)  h) Audible warning Evaluative If tractor travel speed in Provided	e
1.7   1.10 min   1.5	Yes
signal on tractor reverse gear exceeds 20 (The audible warning kmph, an audible warning signal on tractor is	
signal on tractor shall get activated when the	
activated. speed in reverse gear	
I DECEMBER 1 SECTION IN SECTION IN TENERS CONTRACTOR	1
A sticker to the effect that reaches to 20 kmph)	
A sticker to the effect that reaches to 20 kmph ) "operating the tractor beyond & a sticker is pasted or	ļ
A sticker to the effect that reaches to 20 kmph ) "operating the tractor beyond & a sticker is pasted or 20 kmph speed in reverse LHS mudguard.	1
A sticker to the effect that reaches to 20 kmph ) "operating the tractor beyond & a sticker is pasted or	

### MAHINDRA, NOVO 655 DI PP 4WD V1 - INITIAL COMMERCIAL TEST

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1		2		3		4	5	6		7
6.1.7	Labe	lling of	tracto	rs (Prov	isio	n of labelling plate):				
	1) N	Make		Evaluat	ive	Should conform to the		Mahindra		Yes
	2) N	Model		Evaluat	ive	requirements of CMVR	NOVO	655 DI PP4	WD V1	Yes
	/		Evaluative		along-with declared value of				Yes	
		ear of				PTO in kW, Specific fuel		12 / 22		
	manufacture		ture			consumption (SFC)				
		Engine		Evaluat	ive	corresponding to maximum	NN	NJ5SEE00	27	Yes
		number				power in g/kWh and year of				
	,	Chassis		Evaluat	ive	manufacture in numerical	MBNW	/HBF93NN	J0001	Yes
		number				form		0		
	,	Maximun		Evaluat	ive	MM YY		44.0		Yes
		PTO po <sup>.</sup> kW)	wei,			Digit 01-12 in box No. 1 for				
		Specific f	וסו	Evaluat	ivo	MM will represent the month		264		Yes
		consump		⊏valual	ive	and next two digit in the box		204		165
		g/kWh)	ilori,			No. 2 for YY will represent				
6.1.8	<del>`</del>	<u> </u>	uhmic	cion to	toot	the year of manufacturing.				
		ator mar		Evalua		agency): The printed literature in		Provided		Yes
(a)	Opera	ator mar	luai	Evalua e	liv	booklet form should be		riovided		168
(b)	Parte	Catalog	ш	Evalua	tiv	provided as per IS 8132 and		Provided		Yes
(5)	laits	Catalog	ue	e Evalua	LIV	should submit along with the		TTOVIGEG		163
(c)	Work	shop/		Evalua	tiv	test sample.		Provided		Yes
(0)		ce manu	al	e				TTOVIGOG		163
6.1.9					ctiv	e Structures (ROPS):				
00		ractor h				ROPS should meet the	ROPS	fitted [Me	ets the	Yes
			1150			requirement of IS: 11821 or		ement of I		
			track			OECD code or equivalent	(Part-2) as per Cl. 1.13			
	width					International Standard.		test report		
6.1.10	Stand	dard		Evaluativ		Trailer hitch, front tow hook,		Provided		Yes
	Accessories		е		linkage drawbar should be					
						provided with tractor				
6.1.11		ssories		Non		Ballast weight, if fitted,		Provided		Yes
	(optio	nal)		Evaluativ		should meet the				
				е		requirement of CMVR				
6.2					VNS	3 / DEFECTS ( As per clause \$				
S.	_	ory of		egory		Requirements	As	observed	Whethe	r meets ne
No.	break-	downs	•	luative		as per IS: 12207-2022				ement
			/	Non					-	/No)
			Eval	uative)					`	,
1.	Critical		Eva	luative	Th	ere is no 'critical breakdowr	ı'	None	Y	es
					dui	uring the course of testing.				
2.	Major		Eva	luative		here are not more than 2 major		None	Y	es
	l Valadii Vo		breakdowns and neither of them				-			
						ould be of repetitive nature.				
3.	Minor					ere are not more than 5 mino	-	None		es
ა.						None	T '	es		
						fects during the test and neithe				
						them should of repetitive nature				
						no case, the total number of		None	Y	es
4.	Total		Eva	luative		eakdowns should exceed five				
	breakd	lowns			tha	at is, (2 major + 3 minor) or (	1			
					ma	ajor + 4 minor) or 5 mino	r			
						eakdowns.				
<u>.                                    </u>										

### MAHINDRA, NOVO 655 DI PP 4WD V1 - INITIAL COMMERCIAL TEST

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#### 6.3 Conformity with following IS:

i) Guidelines for declaration of power and specific fuel consumption and Conforms labeling of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)]

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

iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Categories Does not 1N, 1, 2N, 2, 3N, 3, 4N & 4 [IS 17231: 2019] conform

Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year: iv) Conforms 2022)]

Agricultural tractors- Operator's seat technical requirement [IS12343 - 2021]

v) conform

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

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

Guide lines for location and operation of operator controls on agricultural viii) Does not tractors and machinery [IS: 8133 - 2021] conform

Tractors and machinery for agriculture and forestry, powered lawn and ix) Does not garden equipment - Symbols for operator controls and other displays Part2 conform Symbols for agricultural tractors and machinery [IS: 6283(Part-1) - 2006 (Reaffirmed Year 2019) and IS: 6283 (Part-2) – 2007 (Reaffirmed Year 2019)]

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

#### 6.4 **Salient Observations:**

#### 6.4.1 Laboratory tests:

#### 6.4.1.1 **PTO Performance Test:**

Applicant vide letter no. FD/BVH/ICT/NOVO655PP4WDV1/23-24/06 dated 03.08.2023 has recommended that tractor operating range is from 1000 rpm to rated engine rpm under full load condition. Hence during PTO performance test, varying speed test was conducted upto 1000 rpm of engine only under natural and high ambient condition.

#### 6.4.1.2 **Drawbar performance test:**

- Applicant vide letter no. FD/BVH/ICT/NOVO655PP4WDV1/23-24/07, dated 22.08.2023 has requested not to conduct the ballasted drawbar performance test & ten-hour drawbar test which is allowed as per the additional quideline for testing of tractors as per new regime of testing of tractors vide an OM No. 13-32/2023-M&T (I&P) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test under unballasted condition was conducted only.
- The applicant also requested to restrict the drawbar performance test to 1000 engine (ii) rpm as per minimum operating range of tractor under full load condition. Hence, drawbar performance test was conducted upto 1000 rpm of engine only.

#### 6.4.1.3 Three point linkage:

The dimensions viz. diameter of hitch pin hole & width of ball of upper hitch points, diameter of hitch pin hole & width of ball of lower hitch points, lateral distance from lower hitch point to centre line of tractor and lateral movement of lower hitch points does not meet the requirements of IS 17231: 2019. This should be looked into for necessary corrective action.

Does not

### MAHINDRA, NOVO 655 DI PP 4WD V1 - INITIAL COMMERCIAL TEST

### THIS TEST REPORT IS VALID UPTO: 30/09/2023

### 6.4.2 Operator's seat:

The following parameters do not meet the requirement of IS: 12343-2021.

- i) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- **ii)** Longitudinal distance from SIP centre of differential lock pedal has been measured as 190 mm against the requirement of 410 to 720 mm.
- iii) Vertical distance from SIP to centre of steering control wheel has been measured as 220 mm against the requirement of 265 to 385 mm.

Therefore, all of the above should be looked into for necessary corrective action.

### 6.4.3 Operator's work place:

The following parameters does not meet the requirement of IS: 12239 (Part-I) -2018.

- i) Vertical retainers on inner side of clutch pedal are not provided.
- ii) Spark arresting device has not been provided in the exhaust system.

Therefore, all of the above should be looked into for necessary corrective action.

### 6.4.4 PTO master shield:

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

### 6.5 Maintenance / Service Problems:

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

### 6.6 Recommendation with regard to safety on tractor:

- i) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table 5 of IS: 8133-2021.
- ii) The hand accelerator lever, when moved away from the operator (i.e. forward) decreases the engine speed, which does not meet the requirement as laid down in Table 1 of IS: 8133-2021.
- iii) In engine revolution gauge, colour zone should be provided as per IS: 6283 (Part-1 & Part- 2) 1998 (Reaffirmed in January, 2019).
- iv) The working clearance between draft control lever & position control lever and between RHS mudguard & tipping trailer lever have been measured as 20 mm against the minimum requirement of 70 mm as per the requirement of IS: 12239 (Part II) 2019.

### 6.7 Adequacy of Literature supplied with machine:

- **6.7.1** The following literatures were supplied with the test tractor for reference during the test:
  - a) Operator Manual for "Mahindra Novo 655 DI PP 4WD V1" tractor models.
  - b) Parts catalogue for "Mahindra Novo 655 DI PP 4WD V1" tractor model.
  - c) Service manual for "Mahindra Novo 655 DI PP 4WD V1" tractor model.
- 6.7.2 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 for trailer

### MAHINDRA, NOVO 655 DI PP 4WD V1 - INITIAL COMMERCIAL TEST

### THIS TEST REPORT IS VALID UPTO: 30/09/2023

## TEST CARRIED OUT AT C.F.M.T. & T.I., BUDNI (M.P.), INDIA TESTING AUTHORITY

C. K. TIJARE AGRICULTURAL ENGINEER	
C. V. CHIMOTE TEST ENGINEER	Etherumanno (
A. K. UPADHYAY DIRECTOR (I/C)	Angel .

Draft Test Report compiled by **C. K. Tijare**, Agricultural Engineer & **Poonam Khurasia**, Senior Technical Assistant.

### 7. APPLICANT'S COMMENTS

Para no. Our reference		Comments		
7.1	6.7.2	Parameters in product literature will be studied and necessary action will be initiated.		

### ANNEXURE-I

### TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared it to be conducted on their work place.
2.	PTO performance test	12.3
3.	Power lift and hydraulic pump performance test	4.4
4.	Drawbar performance test	7.2
5.	Brake performance test	2.3
6.	Nominal speed test	6.7
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	0.2
	TOTAL:	33.1