

प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट

संख्या/No. : T-1713/2244/2023

INITIAL COMMERCIAL TEST REPORT

माह/Month : March, 2023

Application Reference No. 28/2022-23/06

(यह परीक्षण रिपोर्ट 31/03/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/03/2028)



MAHINDRA, ARJUN 605 DI PP 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

T-1713/2244/2023	MAHINDRA, ARJUN 605 DI PP TRACTOR -COMMERCIAL (Initial)
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Manufacturer : **M/s. Mahindra & Mahindra Limited**
(Farm Equipment Sector)
Mahindra Research Valley, Mahindra World City,
Plot no. 41/1, Anjur P.O., District Chengalpattu –
603004.

Month: March	Test Report No. T-1713/2244/2023	Year: 2023
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CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE
TRACTOR NAGAR, BUDNI (MADHYA PRADESH) 466445, INDIA

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1. SPECIFICATIONS

1.1 Tractor:

Make	:	Mahindra
Model	:	Arjun 605 DI PP
Type	:	Rear Wheel Drive, Standard Agricultural Tractor.
Month & year of manufacture	:	02/22
Chassis number	:	MBNWEHDBANNL00038
Country of origin	:	India

1.2 Engine:

Manufacturer's address		Mahindra & Mahindra Limited (Farm Equipment Sector)
	(i)	Akurli Road, Kandivli (E), Mumbai – 400 101
	(ii)	Hingna Road, Hingna MIDC, Nagpur– 440016.
	(iii)	Agri Business Development Center, Khatima Panipat Highway, Udhm Singh Nagar, Vil. Lalpur, Tehsil- Kichha, Rudrapur – 263 153.
	(iv)	Agri Development Center, Vil-Mehla Tehsil - Dudu Jaipur- Ajmer Road, Jaipur– 303 007.
	(v)	Near Bidar “T” Junction, Mahindra Nagar, Zaheerabad- 502 220 Medak District, Telangana.
	(vi)	Mahindra Research Valley, Mahindra World City, Plot no. 41/1, Anjur P.O., District Chengalpattu – 603004.

Make	:	Mahindra
Model	:	MTVNC38NA060TR4
Type	:	Four stroke, common rail direct injection, naturally aspirated, liquid cooled, diesel engine.
Serial number	:	NNLKHTE0008
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

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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:

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.	40.2 (Power Mode) (D)	40.4	Yes
b)	Power at rated engine speed, (kW)	Non-Evaluative	-do-	40.2 (Power Mode) (D)	40.4	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	264 (Power Mode) (D)	262	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non-Evaluative	$\pm 8\%$	235 (D)	218.8	Yes
e)	Back-up torque, percent	Evaluative	12 percent	21 (D) 12 (R) Minimum	19.0	Yes
f)	Maximum operating temperature, ($^{\circ}\text{C}$):					
	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)	121	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)	107	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.	2.66 Maximum (R)	0.38	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)	0.07	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.	20.5 (D) 23.39 Minimum (R)	26.00	Yes	
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.	16.00 (D) 16.03 (R) Minimum	19.97	Yes	
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.	32.2 (D) 32.3 (R) Minimum	35.2	Yes	
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	120 (D)	102	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%	17.6 (D)	17.65	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.	12.35 (D) 9.51 (R) Minimum	12.95	Yes
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	30	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)	7.05	Yes
	2)	Hot brake	Evaluative	10	10 (R)	7.13	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	222 to 281	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)	83	Yes
b)	Maximum noise at operator's ear level, dB(A)		Evaluative	As per CMVR	96 (R)	92	Yes
17.1.6	Amplitude of mechanical vibrations at:						
	1)	Left foot rest	Non-Evaluative	100 microns (max.)	100 (R)	111	No
	2)	Right foot rest				180	No
	3)	Seat (with driver seated)				175	No
	4)	Steering wheel				169	No
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	7.0 (D)		7.0	Yes	
b)	Distance travelled / liter of fuel consumption, (km/l):						
	Two wheel		Non-Evaluative	As specified by the manufacturer	4.80 to 4.83 (D)	4.75 to 4.81	Yes
Four wheel		Non-Evaluative	4.26 to 4.38 (D)		4.70 to 4.81	No	
c)	Fuel consumption, (ml/km/tonne):						
	Two wheel		Non-Evaluative	As specified by the manufacturer	39.20 to 39.70 (D)	41.59 to 42.07	No
Four wheel		Non-Evaluative	29.01 to 29.32 (D)		29.70 to 30.40	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)	Does not meet the requirement	No		
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	13.88 (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 0;"><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		ARJUN 605 DI PP	Yes		
	3)	Month & Year of manufacture	Evaluative		02/22	Yes		
	4)	Engine number	Evaluative		NNLKHTE0008	Yes		
	5)	Chassis number	Evaluative		MBNWEHDBANL 00038	Yes		
	6)	Maximum PTO power, (kW)	Evaluative		40.2	Yes		
7)	Specific fuel consumption, (g/kWh)	Evaluative	264		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 96.010	Yes		
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non-Evaluative		0.50	0.095 to 0.096	Yes		
(c)	Piston diameter at skirt, (mm)	Non-Evaluative		95.600	95.912 to 95.915	Yes		
d)	Ring end gap (mm):		To be specified by the manufacturer and supported by the printed literature	1.5	0.30 to 0.35	Yes		
	-	Top comp. ring.					Evaluative	
	-	2 nd comp. ring.						
-	Oil ring.	2.0	0.35 to 0.40	Yes				
e)	Ring groove clearance (mm):		To be specified by the manufacturer and supported by the printed literature	0.30	--Tapped--	--		
	-	Top comp. ring.					Evaluative	
	-	2 nd comp. ring.						
-	Oil ring.	0.25	0.044 to 0.045	Yes				
f)	Clearance of main bearings (mm):		To be specified by the manufacturer and supported by the printed literature	0.30	0.038 to 0.043	Yes		
	-	Diametrical clearance					Evaluative	
-	Crankshaft end float	Evaluative	0.80	0.09	Yes			

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1	2	3	4	5	6	7	
(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.20	0.065 to 0.078	Yes
	-	Axial	Evaluative	-do-	0.75	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	0.093 to 0.122	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):					
S. 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 PTO performance test

- i) During the PTO performance test under natural & high ambient condition, governor fluctuation was observed from 2000 to 2100 engine speed
- ii) During the smoke level test, the governor fluctuation was observed on following engine speed: -
 - (i) 1519 to 1555 rpm
 - (ii) 1324 to 1360 rpm
 - (iii) 1140 to 1175 rpm

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:

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

- i) Vertical distance from seat index point to the centre of steering control wheel has been measured as 170 mm against the requirement of 265 to 385 mm.
- ii) Vertical distance of seat index point from foot rest has been measured as 620 mm against the requirement of 450 to 520 mm.
- iii) Vertical distance from seat index point to the centre of clutch, brake pedal & accelerator pedal has been measured as 500,500 & 545 mm respectively, against the requirement of 230 to 460 mm.
- iv) Position of silencer outlet with respect to seat index point has been measured as 730 against the minimum requirement of 800 mm.

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

17.3.1.4 Operator's work place:

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

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

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

17.3.1.5 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 30 mm against the minimum requirement of 70 mm.

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

17.3.1.6 Haulage Test:

- i) The specific fuel consumption with four-wheel trailer was recorded as **29.70 to 30.40 ml/km/tonne**, respectively against the declaration of 29.0 to 29.3 ml/km/tonne respectively. This should be looked into for necessary corrective action.
- ii) The distance traveled per liter of fuel consumption with two-wheel trailer was recorded as **4.70 to 4.81 km/l**, respectively against the declaration of 4.26 to 4.38 **km/l** respectively. This should be looked into for necessary corrective action.

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17.3.1.7 Specification of Tractor:

Discrepancies in the specification between the Specification sheet and Operator's manual are as under:

S. No.	Description	As per Specification Sheet	As per Operator's manual
a)	Engine oil capacity, (liter)	13.0	10.0

17.3.1.8 Field performance test:

17.3.1.8.1 Puddling test (wet land operation):

Initially the manufacturer has recommended to conduct the puddling test with "half cage wheels with roto puddler" vide specification sheet. Thereafter, the manufacturer vide letter No. FD/BVH/ICT/T4A605PP/22-23/07 dated 02.08.2022 has requested to conduct the puddling test with "full cage wheels" only **due to non availability of suitable half cage wheels with the manufacturer**, which was allowed. Therefore, the puddling test was conducted with full cage wheels only.

17.5 Adequacy of Literature supplied with machine:

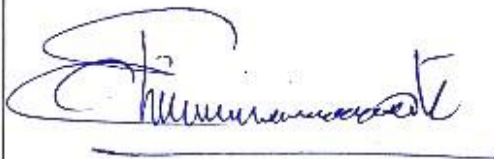
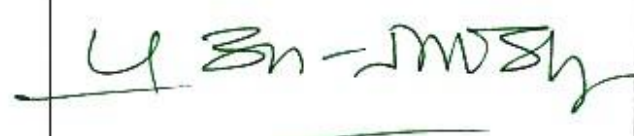
17.5.1 The following literatures were supplied with the test tractor for reference during the test:-

- a) Operator Manual for "Mahindra Arjun/Novo Trem IV" tractor models.
- b) Parts catalogue for "Mahindra Arjun 605 DI PP" tractor models.
- c) Service manual for "Mahindra Arjun 605 DI PP" tractor models.

17.5.2 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) Recommendation for ballast mass.
- iii) Coolant water ratio

TESTING AUTHORITY:

<p>C.V. CHIMOTE TEST ENGINEER</p>	
<p>P.K. PANDEY DIRECTOR</p>	

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

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18. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
18.1	17.5.2	Observations will be studied and necessary corrective actions for improvement in the manuals will be will be initiated.

ANNEXURE- I

BRIEF SPECIFICATION OF IMPLEMENTS USED DURING FIELD TEST

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

ANNEXURE-II

BRIEF SPECIFICATION OF FULL CAGE WHEEL

S.No.	Items	Specification
1	Type	Full cage wheel
2	Outer dia. (mm)	1265
3	Width (mm)	950
4	No. & Type of Lugs	26, 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)	470
7	Spacing of lug, (mm)	265
8	Weight of each cage wheel, (kg)	130

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ANNEXURE-III

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	45.0
2.	PTO performance test	14.2
3.	Power lift and hydraulic pump performance test	5.5
4.	Drawbar performance test	18.2
5.	Turning ability	0.5
6.	Location of centre of gravity	0.2
7.	Operator's field of vision	0.2
8.	Brake test	1.8
9.	Noise measurement	2.3
10.	Mechanical vibration test	1.0
11.	Nominal speed test	1.1
B.	FIELD TEST:	
1.	Disc ploughing	10.4
2.	Rotavation	10.5
3.	Puddling (including 5.0 hours water proof test)	16.3
C.	HAULAGE TEST:	4.8
D.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	9.0
TOTAL:		141.0