प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1809/2340/2023 INITIAL COMMERCIAL TEST REPORT माह/Month : December, 2023

Application Reference No. 28/2022-23/156

(यह परीक्षण रिपोर्ट 31/12/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/12/2028)



Make of Agricultural Tractor: M/s Escorts Kubota Limited

Model : 60 F41 (BRAND NAME - FARMTRAC)

Manufactured by : M/s. Escorts Kubota Limited, 15/5,

Mathura Road, Faridabad – 121 003,

Haryana



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

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IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide an OM No. 13-17/2021-M&T (I&P) dated 28.07.2022, that since 15th 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: December Test Report No.: T-1809/2340/2023 Year: 2023



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

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Escorts Kubota Limited, 60 F41 (BRAND NAME - FARMTRAC) - INITIAL COMMERCIAL TEST

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[C]	Tractor manufacturer's name and address	:	M/s. Escorts Kubota Limited, 15/5, Mathura Road, Faridabad – 121 003, Haryana
[D]	Location of tractor assembly		i) M/s. Escorts Kubota Limited, Plot No. 2 & 3, Sector – 13, Faridabad – 121 007, Haryana, India
			ii) Escorts Kubota India Private Limited, 18/4, Mathura Road, Faridabad-121007, Haryana, India
[C]	Submitted for test by (Applicant)	:	M/s. Escorts Kubota Limited, Knowledge Management Centre, 15/5, Mathura Road, Faridabad – 121 003, Haryana
[C]	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.
[D]	Place of running-in	:	At manufacturer's works
[D]	Duration of running-in (h):		40
	-Engine -Transmission	:	10 15
[C]	Location of test	:	Government of India,
[O]	Location of test	•	Central Farm Machinery Training and Testing
			Institute, P.O Tractor Nagar,
			BUDNI – 466445 (M.P.), INDIA
	1. SPECIFICAT	101	NS OF TRACTOR
1.1	Identification:		
1.1.1	Denomination		
[C]	Make of tractor		M/s. Escorts Kubota Limited
[C]	Model (trade name)	:	60 F41 (BRAND NAME - FARMTRAC)
[C]	Туре	:	Four Wheeled, Rear wheel driven, Standard, Agricultural Tractor
[C]	Month & year of manufacture	:	08/23
[D]	Country of origin	:	India
1.1.2	Numbers:		
[D]	1 st Serial No. of prototype	:	T052570455CK
[C]	Serial No.	:	T052647901EM
1.2	Engine:		

Manufacturer's address

Make

Model

Type

Serial No.

[D]

[C]

[C]

[C]

[C]

: M/s Escorts Kubota Limited, Plot No. 2 & 3, Sector – 13, Faridabad – 121 007, Haryana

Naturally aspirated, Direct injection, liquid cooled

: M/s Escorts Kubota Limited

: FN3.351C-3A

E2640036

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6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

6.1 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: 12207-2022 for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

SI. No.	Ch	aracteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the require ments (Yes/No)
1		2	3	4	5	6	7
				inistry's Office Memorandum	No. 13-17/	2021-M&	T (I&P)
		d 28 th of July, 2	2022).				
6.1.1		Performance:			1		1
a)	undei (kW)	mum power r 2 h test, (Natural ent condition)	Evaluative	Declared value to be achieved with a tolerance of: ±5% for PTO pow er and or engine pow er >26 kW. ±10% for PTO pow er and or engine ≤ 26 kW.	(0)	33.0	Yes
b)	Power at rated engine speed, (kW)		Non Evaluative	-do-	33.6 (D)	33.0	Yes
c)	Spec const	ific fuel umption sponding to mum power,	Evaluative	Should not be more than 10% of declared value.	265 (D)	258	Yes
d)	Maxir equiv crank (Nm)		Non Evaluative	± 8%	216 (D)	232.2	Yes
e)	Back perce	-up torque, ent	Evaluative	Should be min. 12%	12 (D) 12	36.5	Yes
f)	Maxir	mum operating	temperature, (^o	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.	130 (D)	110	Yes
	2)	Coolant	Evaluative	Observed value should not exceed the declared value or boiling point of coolant at radiator cap pressure w hichever is low er. The boiling point of the coolant at radiator pressure shall be provided by the applicant.	118 (D)	95	Yes
g)	Engir const (g/kW	umption,	Evaluative	Not exceeding 1% of SFC at Max pow er under natural ambient condition. The value w ould be based on the test conducted under natural ambient condition	2.58 Maximum	0.742	Yes
h)	Smok	ke 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). 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	0.23	Yes

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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.	*	*	*
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.	16.23 (D) 15.79 Minimum	17.61	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.	26.88 (D) 26.4 Minimum	27.9	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.	130 (D)	100	Yes
Remark:-	the ballasted draw per the additional tractors vide an ON	bar performa I guidelines I No. 13-32/20	m/P-050 dated 27 th Oct,2023 hance test & ten-hour drawbar for testing of tractors as per 23-M&T(I&P) (FTS-125476) dat r un-ballasted condition was	test which we new regimed 16.05.202	vas allow ie of test 3. Accord	ed as

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of declared value. 2) With the standard frame b) Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total Evaluative 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. Non 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. The observed value should not exceed 50 mm. Maximum drop in the force after each 5 minutes interval for a total	7.65 mum 0 (D) 15.97 Y .77 mum	Yes Yes
A) Maximum lifting capacity throughout the range of lift, (kN): 1) At hitch points Evaluative Should not be less than 90% of declared value. 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. b) Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total	7.65 mum	
1) At hitch points Evaluative Should not be less than 90% of declared value. 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. b) Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total Should not be less than 90% of declared value. 17. Minim 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. Non Evaluative not exceed 50 mm. Maximum drop in the force after each 5 minutes interval for a total	7.65 mum	
2) With the standard frame b) Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total 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. Non Evaluative The lift capacity should at least be 24 kg/PTO kW and it should be 21.5 kg/engine kW Minim where the tractor is not provided with a PTO shaft. The observed value should not exceed 50 mm. Minim Minim where the tractor is not provided with a PTO shaft. The observed value should not exceed 50 mm.	mum 15.97 Y 77 mum (D) 85 1	Yes
2) With the standard frame By a 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. By a 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. The observed value should not exceed 50 mm. Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total	(D) 15.97 Y mum (D) 85	Yes
standard frame 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. b) Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total least be 24 kg/PTO kW and it should be 21.5 kg/engine kW Minim where the tractor is not provided with a PTO shaft. The observed value should not exceed 50 mm. Maximum drop in the force after each 5 minutes interval for a total	(D) 85	Yes
frame should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft. b) Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft. The observed value should not exceed 50 mm. Maximum drop in the force after each 5 minutes interval for a total	(D) 85	
b) Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total where the tractor is not provided with a PTO shaft. Non The observed value should not exceed 50 mm. Maximum drop in the force after provided with a PTO shaft. The observed value should not exceed 50 mm.	(D) 85 I	
b) Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total provided with a PTO shaft. Non The observed value should not exceed 50 mm. Maximum drop in the provided with a PTO shaft. The observed value should not exceed 50 mm.	, ,	
b) Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total	, ,	
the height of the point of application of the force after each 5 minutes interval for a total	, ,	No
point of application of the force after each 5 minutes interval for a total		INO
of the force after each 5 minutes interval for a total	i i	
interval for a total		
duration of 30		
Minutes, (mm)		
6.1.4 Brake performance at 25 kmph:		
a) Maximum stopping distance at a force, equal to or less than 600 N on	brake pedal with r	road
ballast, (m):	, , , , , , , , , , , , , , , , , , ,	
	10 6.57 Y	Yes
2) Hot brake Evaluative 10 1	10 6.65 Y	Yes
b) Whether parking Evaluative Yes / No Yes	es Yes Y	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 optiona	l tacts tharafara r	
optional tests was conducted.	ii lesis, liiererore i	110
6.1.6 Safety features :		
	Meets the Y	Yes
	requirement	
parts [As per IS 12239 (Part2)]		
, , , , , , , , , , , , , , , , , , , ,	Conforms Y	Yes
arrangement		
, , ,		No
	meet the equirement	
more than 1150 time)	quirement	
mm rear track		
width)		
'	Meets the Y	Yes
	requirement	
PTO shaft (As amended from time to		
time)	D '	NI.
1 ' 1		No
	meet the equirement	
	44memem	
(Part-I) (As amended from time to time)		

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f)	Spe	ecifications of	Non	Should meet the	Meets the	Yes
,		age drawbar	Evaluative	requirements of IS: 12953	requirement	
				(As amended from time to		
				time)		
g)		nging drawbar	Non	Should meet the	Not provided	Not
	(wh	erever fitted)	Evaluative	requirement of IS: 12362		appli-
				(Part 3) (As amended from		cable
	Δ	lila I a	E. al. ation	time to time) If tractor travel speed in reverse	Nat Suad	NI-4
h)	Aud		Evaluative	gear exceeds 20 kmph, an	Not fitted	Not
	Sigi	nal on tractor		audible warning signal on tractor		appli- cable
				shall get activated.		Cable
				A sticker to the effect that		
				"operating the tractor beyond 20 kmph speed in reverse gear is not		
				safe" should be prominently		
				displayed.		
6.1.7			,	labeling plate):		
	1)	Make	Evaluative	Should conform to the	Escort Kubota	Yes
				requirements of CMVR	Limited (Formerly	
	0)	Mardal	E. alicetica	along-with declared value of	Escorts Limited)	\/
	2)	Model	Evaluative	PTO in kW, Specific fuel consumption (SFC)	60 F41	Yes
	3)	Month & Year of	Evaluative	corresponding to maximum	08 / 23	Yes
		manufacture		power in g/kWh and year of		
	4)	Engine	Evaluative	manufacture in numerical	E2640036	Yes
	¬)	number	L valuative	form	L20 1 0000	103
	5)	Chassis	Evaluative	MM YY	T052647901EM	Yes
	'	number		Digit 01-12 in box No. 1 for		
	6)	Maximum	Evaluative	MM will represent the	33.6	Yes
		PTO power,		month and next two digit in		
		(kW)		the box No. 2 for YY will		
	7)	Specific fuel	Evaluative	represent the year of	265	Yes
		consumption,		manufacturing.		
		(g/kWh)				
6.1.8	Lite	erature (Submis	sion to test age	ency):		
(a)	One	erator manual	Evaluative	The printed literature in	Provided	Yes
(b)		ts Catalogue	Evaluative	booklet form should be	Provided	Yes
(c)		rkshop/	Evaluative	provided as per IS 8132 and	Provided	Yes
()		vice manual		should submit along with		
				the test sample.		
6.1.9	Fitn	nent of Roll Ove	er Protective S	tructures (ROPS):		
			E. al. atia	DODG should asset the	NI-4 E44I	NI-4
		tractor having e than 1150 mm		ROPS should meet the	Not fitted	Not
		track width		requirement of IS:11821 or OECD code or equivalent		applica- ble
	IEai	track width		International Standard.		bie
6.1.10	Sta	ndard	Evaluative	Trailer hitch, front tow hook,	Provided	Yes
0.1.10		essories	L valuative	linkage drawbar should be	1 TOWACA	103
	,	22001100		provided with tractor		
6.1.11	Acc	essories	Non	Ballast weight, if fitted,	Provided	Yes
		ional)	Evaluative	should meet the		
		,	1			

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6.2	CATEGORY C	CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022):						
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	As observed	Whether meets the Requirement (Yes/No)			
1.	Critical	Evaluative	There is no 'critical breakdown' during the course of testing.	None	Yes			
2.	Major	Evaluative	There are not more than 2 major breakdowns and neither of them should be of repetitive nature.	None	Yes			
3.	Minor	Evaluative	There are not more than 5 minor defects during the test and neither of them should of repetitive nature.	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			

6.3 Conformity with following IS:

i) Guidelines for declaration of power and specific fuel consumption and labeling : Conforms 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 conform 1N,1, 2N, 2, 3N, 3, 4N & 4 [IS:17231-2019]

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

Agricultural tractors - Operator's seat technical requirement [IS12343 – 2021] Does not v)

conform

vi) Guide for safety & comfort of operator of agricultural tractors: Part 1 General requirements (first revision):[IS 12239 (Part 1) - 2018]

Does not conform

Tractors and machinery for agriculture and forestry - Technical means for vii) 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

Does not conform

tractors and machinery [IS: 8133 - 2021] Tractors and machinery for agriculture and forestry, powered lawn and garden ix) equipment - Symbols for operator controls and other displays Part2 Symbols for agricultural tractors and machinery [IS: 6283(Part-1) - 2006 (Reaffirmed Year 2019) and IS: 6283 (Part-2) - 2007 (Reaffirmed Year 2019)]

Does not conform

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

6.4 Salient Observations:

6.4.1 Laboratory tests:

viii)

6.4.1.1 Three-point linkage:

The following parameter does not meet the requirements of IS: 17231-2019 and needs to be looked into for necessary corrective actions:

The dimensions viz. lateral distance from lower hitch point to centre line of tractor does not meet the requirements of IS: 17231-2019. This should be looked into for corrective action.

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6.4.1.2 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) Vertical distance from SIP to centre of centre of steering control wheel has been measured as 180 mm against the requirement of 265 to 385 mm.
- iii) Vertical distance of SIP from foot rest has been measured as 615 mm against the requirement of 450 to 520 mm.
- iv) Vertical distance from SIP to centre of accelerator pedal has been measured as 540 mm against the requirement of 230 to 460 mm.

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

6.4.1.3 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 & brake 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.

6.4.1.4 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.

Above parameters should be looked into for necessary corrective action.

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: -
 - Operator Manual for "Escorts Kubota Limited, 60 F41 (BRAND NAME: FARMTRAC"), Power maxx 40, 50 & 6055 tractor model.
 - ii) Parts catalogue for "Escorts Kubota Limited, 60 F41 (BRAND NAME: FARMTRAC" tractor
 - iii) Service manual (Part- 1 & 2) for "Escorts Kubota Limited, 60 F41 (BRAND NAME: FARMTRAC" tractor model.
- 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) Recommended ballast masses for different operations.
 - ii) Safe hitch height while using trailer.

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1 1000/20 10//2020	THIS TEST REPORT IS VALID UPTO: 31/12/2028

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

B.N. DIXIT AGRICULTURAL ENGINEER	
R.P. PANDEY SENIOR INSTRUMENTATION ENGINEER	Randen
A. K. UPADHYAY DIRECTOR (I/C)	

Draft Test Report compiled by **Sh. B.N. Dixit,** Agricultural Engineer.

7. APPLICANT'S COMMENTS

Para no.	Our reference	Comments
7.1	6.3(iii, v, vi, vii, viii & ix)	The observations will be studied and will try to take necessary corrective action

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	12.47
3.	Power lift and hydraulic pump performance test	3.91
4.	Drawbar performance test	6.6
5.	Brake performance test	1.25
6.	Nominal speed test	2.0
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	1.67
	TOTAL:	27.9