

12. Annual Meeting Of ANTAM on 11 December 2025,  
Thimpu and Paro, BHUTAN

# Agricultural Tools and Machinery Test Center Directorate (TAMTEST)

Dr. Emrah KÖSE



## ABOUT TAMTEST

Established in 1962 as Agricultural Tools and Machinery Agricultural Facilities Research and Test Laboratory,

In 1987, it was renamed Agricultural Tools and Machinery Test Center Directorate (TAMTEST).



TAMTEST



# ABOUT TAMTEST

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## Establishment purpose;

- To test and inspect agricultural tools and machinery and to publish the results as an Experiment Report.





# ABOUT TAMTEST

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Our Directorate covers an area of 30.000 m<sup>2</sup>, 2850 m<sup>2</sup> of which is closed; It carries out its activities with 2 separate buildings, experiment laboratories and other experimental units.





# MISSIONS

5

Official OECD Tests for Agricultural and Forestry Tractors

Type Approval Tests and Inspections for tractors, components, separate technical units and systems of tractor,

Plant protection machinery tests according to national legislation



# MISSIONS

6

Agricultural Mechanizations Machinery And Tools Tests For Credit Sale

Performing National Type Approval Tests.

Conformity Assessments, Inspections And Tests In Accordance With Ce Marking For Machinery Directive (2006/42/Ec),





# MISSIONS

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Earth moving machinery tests (ROPS, FOPS and noise tests),

Research and development tests

Collaborate with manufacturers and public enterprises

Collaborate with TSE (Turkish Standard Institute) for prepares and revisions of standards

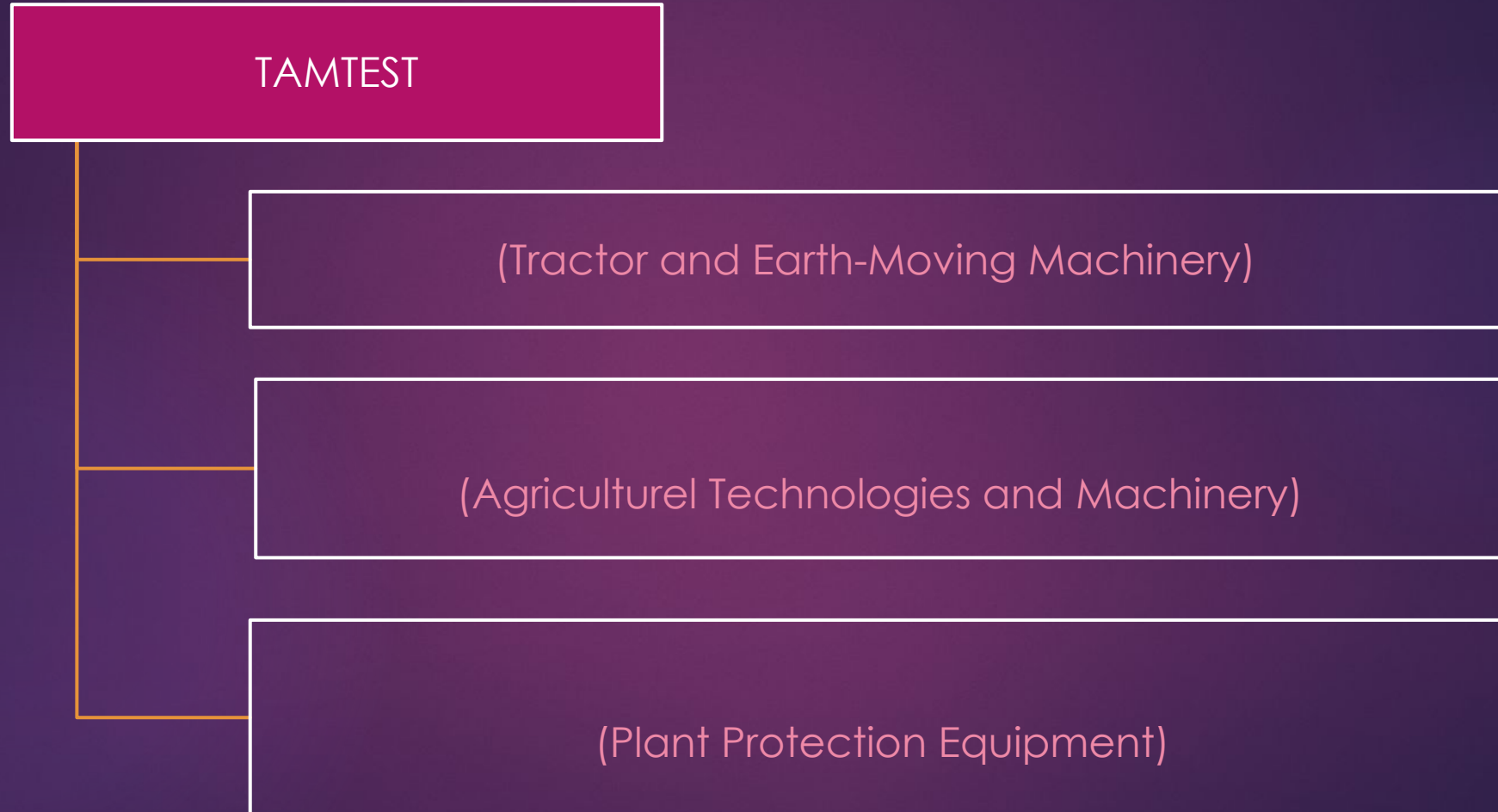
Cooperation with international Testing Centers



Tarım alet ve makine test merkezi müdürlüğü







# ACCREDITATION

TAMTEST; It has been accredited by the TURKISH ACCREDITATION AUTHORITY (TÜRKAK) in 2003 according to TS EN ISO / IEC 17025: 2005 'General Conditions for the Competence of Testing and Calibration Laboratories' standard,

TAMTEST is a member of International OECD and ANTAM and regularly participates in the meetings of these organizations.



# EXPERİMENTS TESTS

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1-Tests of Agricultural and Forestry Tractors According to OECD Codes

2-Agricultural Tools and Machinery Tests

3-Experiments of Agricultural Fighting Tools

4-Agriculture and Forestry Tractors EU Type Approval Tests

5-Tests Performed Based on CE Marking within the scope of Machinery Safety Directive





# EXPERİMENTS TESTS

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Testing of agricultural and forestry tractors according to OECD codes ;

1- OECD Code 2 Performance Test

2- OECD Code 4 Protective structures

3- OECD Code 5) Measurement of Noise at the Driver's Ear Level

4- OECD Code 6 Test of Front-mounted ROPS on Narrow-track Wheeled Tractors

5- OECD Code 7 Test of Rear-mounted ROPS on Narrow-track Wheeled Tractors

6- OECD Code 8 Test of Protective Structures on Tracklaying Tractors

7- OECD Code 9 Test of Telescopic-boom Protective Structures

8- OECD Code 10 Test of Falling Object Protective Structures (FOPS)



I will add video ( 5 minutes)

## 2-/ Agricultural Tool and Machine Tests.

These experiments are conducted within the scope of the communiqué (no 2020/31269).

Agricultural machinery tests are mandatory in sales on credit and supported by the state.

These experiments are carried out in accordance with national and international norms and the experimental principles and methods prepared by TAMTEST and the relevant departments of the universities and published by our Ministry. (135 principles)





# EXPERİMENTS TESTS

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Agriculturel Technologies and Machinery test

Soil cultivation machinery,

Sowing-planting and fertilizing machines,

, Harvesting machines,

Agricultural transmission machinery,

Transport vehicles,

Irrigation pumps,

Sprinkler pipes and heads,

It can be divided into 8 main groups as tests of all kinds of tools and machines used in animal husbandry.



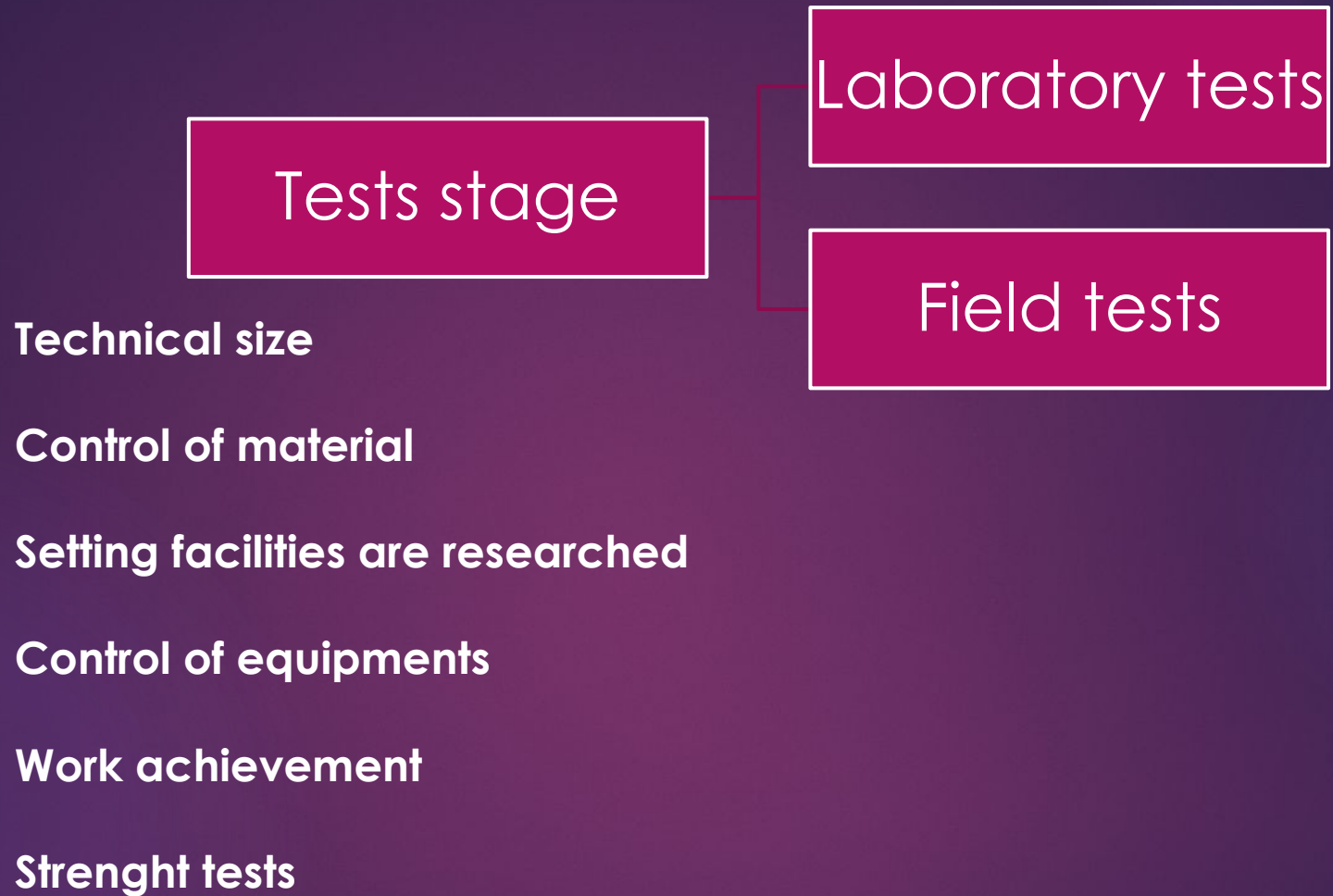
# Capabilities

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- ▶ Laboratory tests
- ▶ Field tests (Nationwide on-field testing)
- ▶ Bumpy truck unit
- ▶ PTO Drive-shaft guard test unit







# KINDS OF MACHINERY FOR TEST (98 DIFFERENT AGRICULTURAL MACHINES ARE TESTED)

17

Bale wrapper



Baler



Center pivot  
irrigation



Feed mixing  
machine



Drip irrigation pipe



Sorting machine  
(hazelnut)



Forklift



Solar pumping system



Irrigation pipe



Generator



Fertilizer distributor



Mini ekskavator





Corn header



Corn harvesting



Rotor rake



Loader



Potato harvester



Box lifter





pump



Power tiller



Field type rotovator



Trailer



Silages and wrapper



Milking machine





Milk cooling tank



Land leveler



Hole digger



Tillage



Olive harvester



Seed drill



All involved 80 test equipments are calibrated by external authorized body



Pulsation Tester)



Milk Tank Calibration and Cooling Performance Testing Equipment





Noise dosimeter



Grain Moisture Meter



Vibration meter



ultrasonic Thickness Meter



## 3- Tests of Agricultural Struggle Machines

The manufacture, import and sale of Agricultural Struggle machines are regulated by law.

According to the legal legislation, all kinds of combat machines manufactured or imported of these machines must obtain a license from our ministry.

TAMTEST conducts tests based on license



# EXPERİMENTS TESTS

Plant Protection Equipment Tests

Spray group dispersion uniformity test

Pump performance test

Pump life test

Nozzle wear test

Drop analysis experiment

Single nozzle flow and distribution test

It can be collected in 6 main groups.



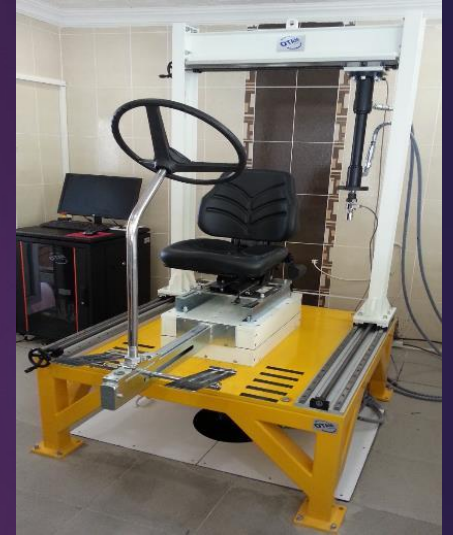
# EXPERİMENTS TESTS

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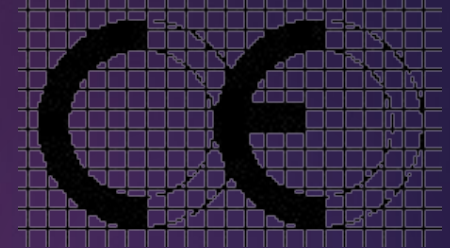
Agricultural and Forestry Tractors EU Type Approval Tests

TAMTEST provides technical service to the Ministry of Industry and Technology.

Tests are carried out in accordance with 19 separate EU directives based on the type approval of agricultural and forestry tractors.



Tests Performed Based on CE Marking within the Scope of Machinery Safety Directive



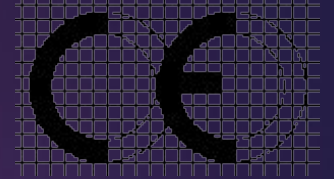
Within the scope of 2006/42 / AT Machinery Safety Regulation, all kinds of machinery must bear CE mark

CE marking of machinery on the EU market and non-market sales in Turkiye are prohibited.



# EXPERİMENTS TESTS

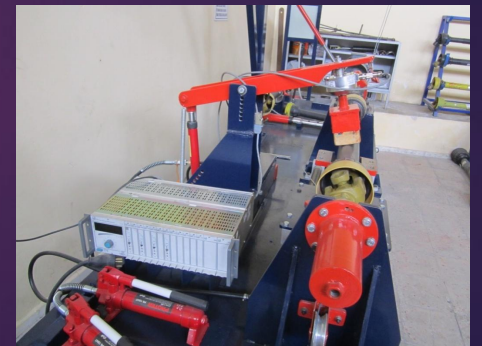
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## - Conformity assessment tests

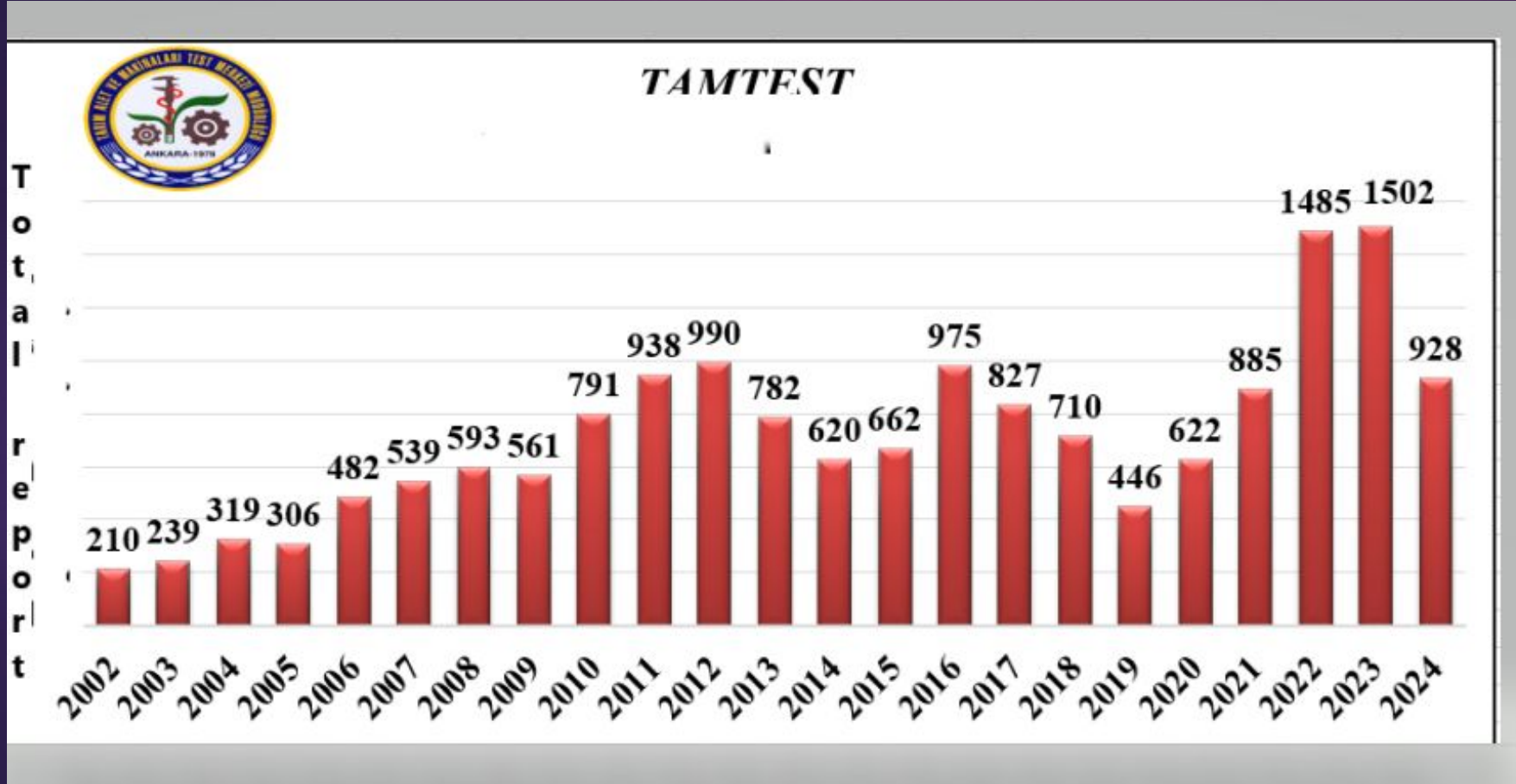
Reports are prepared by making risk analysis and conformity assessment of the machines within the scope of 2006/42 / AT Machinery Safety Regulation and related harmonized standards.

Manufacturers make the necessary changes according to these reports and keep these reports in the technical file they have prepared for CE marking



# EXPERİMENTS TESTS

## Annual report count



 **t a m t e s t**   
TARIM ALAT VE MAKİNE TEST MERKEZİ MÜDÜRLÜĞÜ

T.C. TARIM VE ORMAN BAKANLIĞI" Tarımsal Mekанизasyon Araçları Deney  
İlke ve Metotları"na göre  
TEK DİNGİLLİ RÖMÖRK  
DENEY RAPORU

Rapor Numarası : 2023/12506-TTM1.064  
Rapor Tarihi : 13 / 03 / 2023



Deneyi Yapan Alet/Makinanın		Başvuran	
Marka	: SEVİNDİ	Adı	: SEVİNDİ TAR.MAK.OTOMOTİV MADENCİLİK SAN. TİC.LTD. ŞTİ.
Model	: SÖET	Adres	: A.H.R.Mah. Ankara Cad. Sevinçli Tarım Ofis No:203 Merkez / ÇANKIRI
Kategori/İz İndeksi	: R3/a	Telefon	: 0 (376) 213 37 20 0 (376) 213 31 19
Tipi/İsmi/ Kapasite	: Bir Dingilli/Yarı Römork- Arkaya Devirmeli/5 ton		

Bu deney raporu tümü dışında, TAMTEST" in yazılı izni olmadan kısmen çoğaltılamaz. Bu deney raporu  
kredili satışa esas olup, Makine Emniyeti Yönetmeliği (2006/42/AT) kapsamında değildir.

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# PERSONNEL AND VEHICLE STATUS

Position	Number
Director	1
Coordinator	2
Engineer	39
Technician	16
Officer	7
Worker	33
Total	98

Kinds of Vehicle	Number
CAR	1
Van	2
Minibus	1
Tractor	4
others	2







Thank You...