

# 3<sup>rd</sup> Asia Automobile Institute Summit

## 2-4 December 2014, Bangkok

### **AAI Summit**

### **Introduction TAI's Testing Center**

# Overview

- **1.About TAI Testing Center**
  - ❖ **1.1 Test facility overview**
  - ❖ **1.2 Building & floor plan**
  - ❖ **1.3 Grouping of testing service and product development test**
- **2. Site visit on 4 Dec 2014**
  - ❖ **2.1 Exhaust emission testing laboratory**
  - ❖ **2.2 Safety helmet protection for motorcyclist testing laboratory**
  - ❖ **2.3 Tire testing laboratory**
  - ❖ **2.4 Chemical testing laboratory( ELVs & VOCs)**
  - ❖ **2.5 Environments(Reliability) testing laboratory**

( 2.4 & 2.5 In case time available )

# 1.1 Test facility overview

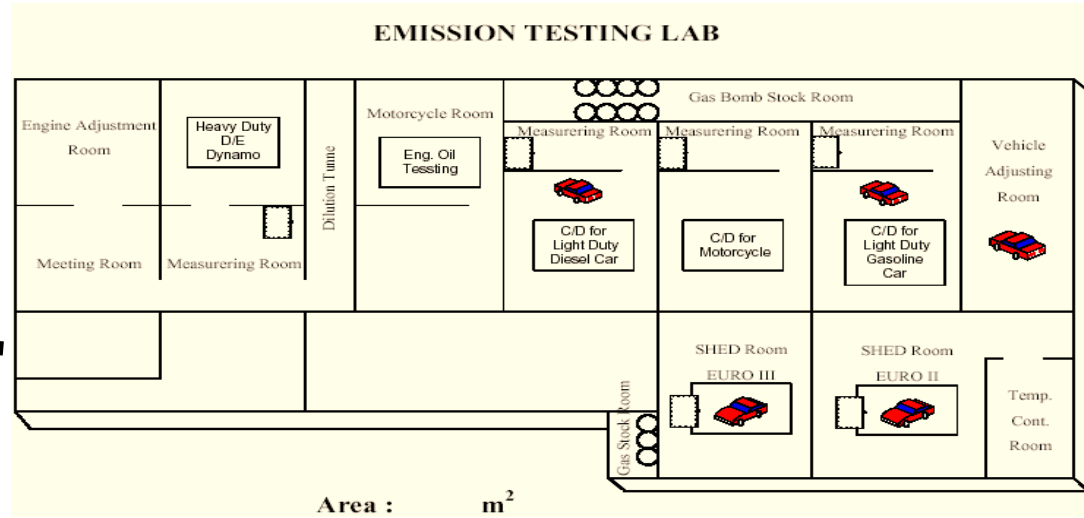
- Location : Bangpoo Industrial Estate ,Samutprakarn Province
- Distance from Bangkok & travelling duration : 45 kms , 1:30 hrs
- Testing center total area : 16,000 m<sup>2</sup>
- No of Staff @ testing center : 50



# 1.2 Building & floor plan

## Exhaust Emission Testing Lab

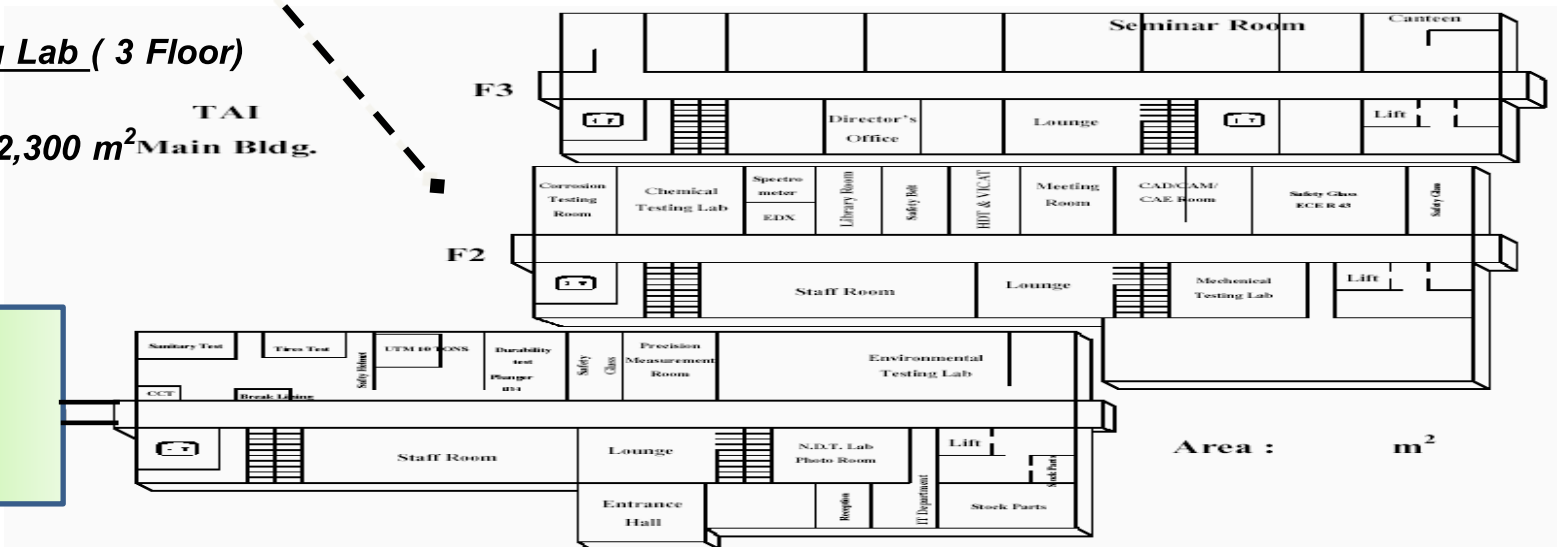
(1 Floor) Area : 1,600 m<sup>2</sup>



## Materials /Components

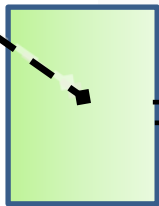
## Testing Lab ( 3 Floor)

Area : 2,300 m<sup>2</sup> Main Bldg.



## Tire Testing Lab

(1 Floor) Area : 250 m<sup>2</sup>



# 1.3 Grouping of testing service

## Scope of service

Provide testing services according to national standard and support auto part and part makers to test for quality assurance or product developments following the car manufacturer standard ,international standard or customer's requirement.

## Group of Testing

1. Emission Test
2. Mechanical Test
3. Environment Test
4. Dimension and Calibration Test
5. Chemical Test
6. Product development Test



## 2.1 Site Visit : Exhaust emission testing laboratory

Exhaust emission Testing from vehicle ,The facilities divide as follows.

1. 1 x test cell for combine both PI and CI engine : test as following standard TIS 2145-2546, TIS 2155-2546 ( EURO IV)
2. 1 x test cell for Heavy Diesel engine and CNG engine : test as following standard TIS 2315-2551(EURO III)
3. 1x test cell for 2 wheel Motorcycle: test as following standard TIS 2350-2551(EURO III)
4. 1x test cell for small engine test not more than 45 Kw ( wait for installation, test available in Q3 ,2015.)



## 2.2 Site Visit :Safety helmet protection for motorcyclist testing laboratory

Safety helmet facilities divide as follows.

1. Precondition test equipment such as Hi-Low temp & humidity chamber , UV chamber
2. Test equipments for Helmet “Shell” such as Impact absorption ( 5 items for test )
3. Test equipments for Helmet “Visor” such as Field of vision ,Luminous transmittance (9 items for test
4. Test equipments for Helmet “Chin strap” such as Micro-slip( 3 items for test )

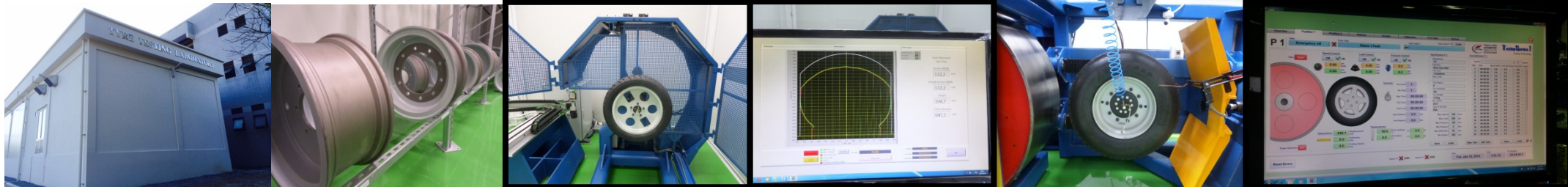
All following standard TIS 369-2557 (ECE R22 & DOT)



## 2.3 Site Visit : Tyre testing laboratory

Tyre testing facilities divide as follows.

1. 1x test cell High speed& load performance test for Motorcycle & light duty vehicle tyre as following standard ECE R75 & ECE R30
2. 1x test cell Dynamic growth test for Motorcycle tyre as following standard ECE R75
3. 1x test cell High speed& load performance test for Heavy truck and Bus tyre and Rolling resistance test for light duty vehicle tyre as following standard ECE R54 & ECE R117(Rolling road coefficient)





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**Thank you for your attention.**