PROJECT
OF
TURKISH CEMENT MANUFACTURERS’ ASSOCIATION
FOR
CONFORMITY ASSESSMENT AND MARKET SURVEILLANCE INFRASTRUCTURE
OUTLINE

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II. FRAMEWORK OF THE PROJECT
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I. PRESENTATION OF THE INSTITUTION

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1. BACKGROUND

Established in 1957, Turkish Cement Manufacturers’ Association represents the industries manufacturing cement and other hydraulic binders.

Testing & Research Laboratories

1978
TÇMB Lab
Established under a “UNIDO project”

1995
Cement and Concrete R&D Institute

2003
• Independent Quality Control Testing Labs (Accredited by Turkak)
• R&D Labs
• Calibration Lab
2. MAIN OBJECTIVES

• HELPING AND PROMOTING R&D ACTIVITIES ON CEMENT AND CONCRETE

• CARRYING OUT QUALITY CONTROL TESTING FOR THE INDUSTRY

• ENSURING THAT CEMENT AND CONCRETE STANDARDS ARE DEVELOPED AND IMPROVED
3. ORGANISATION & ACTIVITIES

- R & D Institute
  - Laboratories
    - Independent Quality Control Testing Laboratories
      - Physical & Mech. Testing Lab
        - Cement
        - Concrete
        - Grindability
      - Chemical Testing Lab
        - Wet Chemistry
        - Photometer
        - XRF
        - Fuel
    - R & D Laboratories
      - XRD
      - Microscope
      - Thermal Analysis
    - Calibration Laboratory
4. STAFF

1  CIVIL ENGINEER         Prof.
2  CIVIL ENGINEERS        M.Sc.
3  CHEMICAL ENGINEERS     M.Sc.
2  CHEMICAL ENGINEERS     B.Sc.
1  CHEMIST                Ph.D
2  CHEMISTS               M.Sc.
4  TECHNICIANS            
1  LABOR
5. PURPOSE AND DUTIES

- Develop a technical and scientific basis
- Carry out studies on process development
- Render expert reports and consulting services
  - Investigate problems encountered by factories
- Promote relevant studies of universities and other scientific institutions
- Carry out scientific studies
- Disseminate information on latest developments in the field
- Cooperation with European institutions and Turkish Standards Institute in preparation of testing standards
- Provide calibration services for factories and institutions
II. FRAMEWORK OF THE PROJECT

1. GENERAL FRAMEWORK
2. STATE OF THE ALIGNMENT OF TECHNICAL LEGISLATION IN TURKEY
3. ENFORCEMENT OF THE NEW CONFORMITY ASSESSMENT AND MARKET SURVEILLANCE SYSTEMS
1. GENERAL FRAMEWORK

- TURKEY IS A CANDIDATE FOR MEMBERSHIP TO THE EU
- DECISION 95/1 OF THE EC-TURKEY ASSOCIATION COUNCIL COMPLETING THE CUSTOMS UNION
- DECISION 97/2 LISTING THE AREAS IN WHICH TURKEY SHALL ALIGN ITS LEGISLATION

HARMONISATION OF TURKEY’S TECHNICAL LEGISLATION WITH THAT OF THE EU
2. STATE OF ALIGNMENT OF TECHNICAL LEGISLATION IN TURKEY

- **Decree 97/9196 Establishing a List of Ministries and Institutions Involved in the Harmonisation of Technical Legislation on April 29, 1997**

- **Entry into Force of Framework Law Which Sets Out:**
  - Conditions of the Placing on the Market of the Products
  - Liabilities of Producers and Distributors
  - Conformity Assessment Bodies
  - Notified Bodies
  - Market Surveillance and Inspection
  - Prohibition of the Placing on the Market of Certain Products
  - Withdrawal and Destruction of Marketed Products
  - Notifications Relating to These Arrangements
• 5 COMPLEMENTARY SECONDARY LEGISLATION

• MARKET SURVEILLANCE AND CONTROL OF PRODUCTS

• USE AND AFFIXING OF CE CONFORMITY MARK

• WORKING PRINCIPLES AND PROCEDURES FOR CONFORMITY ASSESSMENT AND NOTIFIED BODIES

• EXCHANGE OF INFORMATION ON NATIONAL MEASURES DEROGATING FROM THE FREE MOVEMENT OF GOODS

• NOTIFICATION PROCEDURES BETWEEN TURKEY AND EC REGARDING TECHNICAL LEGISLATION

PUBLISHED ON 17.01.2002 AND APPLICABLE AS FROM 11.01.2002

UNDER CONSULTATION WITH EU COMMISSION

PUBLISHED ON 03.04.2002
3. ENFORCEMENT OF THE NEW CONFORMITY ASSESSMENT AND MARKET SURVEILLANCE SYSTEMS

UPGRADING THE LABORATORY INFRASTRUCTURE FOR CONFORMITY ASSESSMENT AND MARKET SURVEILLANCE HAS BEEN IDENTIFIED AS A PRIORITY FOR FUNDING

SELECTED SECTORS FINANCED UNDER 2003 PROGRAMME

- MEDICAL DEVICES, TOY SAFETY, FOODSTUFFS AND DETERGENTS, MACHINERY, ELECTRICAL EQUIPMENT, PRESSURE VESSELS, MOTOR VEHICLES AND TELECOMMUNICATIONS TECHNOLOGY

REMAINING SECTORS TO BE FINANCED UNDER 2004 PROGRAMME

- CONSTRUCTION PRODUCTS, LEGAL METROLOGY AND PRE-PACKAGING, TEXTILES, CIVIL EXPLOSIVES, TRACTORS, COSMETICS, FERTILISERS, ETC.
III. PRESENTATION OF THE PROJECT

1. MAIN FIGURES RELATING TO SECTORS IN THE SCOPE OF THE PROJECT
2. MAIN OBJECTIVE
3. CURRENT CAPABILITIES TO ACHIEVE MAIN OBJECTIVE
4. TARGETED CAPABILITIES
   a) IMPROVEMENT OF THE CURRENT SYSTEM
   b) EXTENSION OF THE CURRENT SYSTEM
5. REQUIREMENTS TO ACHIEVE TARGETS
   a) GENERAL
   b) EQUIPMENT
   c) TRAINING
6. TIME SCHEDULE (TENTATIVE )
7. BUDGET ( TENTATIVE )
1. MAIN FIGURES RELATING TO SECTORS IN THE SCOPE OF THE PROJECT (PLEASE REFER TO ANNEX 1 FOR DETAILS)

<table>
<thead>
<tr>
<th>Sector</th>
<th>No of Plants</th>
<th>Production Capacity</th>
<th>Total Consumption</th>
<th>Exports</th>
</tr>
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<tbody>
<tr>
<td>CEMENT</td>
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<td>66</td>
<td>28.1</td>
<td>7.4</td>
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<tr>
<td>GYPSUM</td>
<td>20</td>
<td>NA</td>
<td>2.5</td>
<td>0.14</td>
</tr>
<tr>
<td>AGGREGATES FOR CONCRETE</td>
<td>1300</td>
<td>NA</td>
<td>200</td>
<td>NA</td>
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<tr>
<td>ADMIXTURE FOR CONCRETE, MORTAR, GROUT</td>
<td>NA</td>
<td>NA</td>
<td>0.3</td>
<td>NA</td>
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<tr>
<td>BUILDING LIME</td>
<td>60</td>
<td>5</td>
<td>3.6</td>
<td>0.1</td>
</tr>
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</table>

NA : NOT AVAILABLE
2. MAIN OBJECTIVE

CONTRIBUTION TO THE HARMONISATION OF TURKEY’S TECHNICAL LEGISLATION WITH THAT OF THE EU BY WAY OF

• IMPROVING AND EXTENDING LABORATORIES

FOR THE OBJECTIVE OF :

• THE ESTABLISHMENT AND FUNCTIONING OF THE CONFORMITY ASSESSMENT AND MARKET SURVEILLANCE STRUCTURE
3. CURRENT CAPABILITIES TO ACHIEVE MAIN OBJECTIVE

a) INDEPENDENT QUALITY CONTROL TESTING LABORATORIES (IQCTL)
b) R&D LABORATORIES
c) CALIBRATION LABORATORY
a) INDEPENDENT QUALITY CONTROL TESTING LABORATORIES (IQCTL)

- INVESTIGATION OF CHEMICAL, PHYSICAL AND MECHANICAL PROPERTIES OF CEMENT, CONCRETE AND ADMIXTURES, BINDING AND OTHER CEMENT RELATED RAW MATERIAL
- ACCREDITATION OF IQCTL BY TURKAK FOR EN ISO/IEC 17025 STANDARD SINCE 2003
- TESTING SERVICES AS EXPERT REPORTS, TESTS AND ANALYSES TO CE CERTIFICATION BODIES, MANUFACTURERS AND USERS (PUBLIC AND PRIVATE)
- PROVIDING QUALITY ASSURANCE FOR INTERNAL AND GLOBAL ROUND ROBIN PROFICIENCY TESTING PROGRAMMES IN CEMENT
b) R&D LABORATORIES

- CONDUCTING BASIC AND APPLIED RESEARCH ON CEMENT AND CONCRETE (RESEARCH WORK IS SUPPORTED BY IQCTL AS REQUIRED)

- PROVIDING SOLUTION FOR THE PROBLEMS ENCOUNTERED BY CEMENT FACTORIES RELATED TO
  - RAW MATERIAL
  - ADMIXTURES
  - PROCESS CONTROL AND DEVELOPMENT

- PROVIDING TECHNICAL SUPPORT TO IQCTL
c) CALIBRATION LABORATORY

- CALIBRATION OF PROCESS CONTROL DEVICES
- REPAIR AND MAINTENANCE OF CEMENT AND CONCRETE LABORATORY DEVICES
4. TARGETED CAPABILITIES

a) IMPROVEMENT OF THE CURRENT SYSTEM
b) EXTENSION OF THE CURRENT SYSTEM
a) IMPROVEMENT OF THE CURRENT SYSTEM

- NEED FOR CAPACITY INCREASE TO RESPOND TO ADDITIONAL DEMAND FOR CURRENT DUTIES
- ADDITIONAL DUTIES RESULTING FROM CONFORMITY ASSESSMENT AND MARKET SURVEILLANCE

- ADDITIONAL EQUIPMENT
- ADDITIONAL HUMAN RESOURCES
b) EXTENSION OF THE CURRENT SYSTEM

- AGGREGATES FOR CONCRETE
- GYPSUM
- ADMIXTURE FOR CONCRETE, MORTAR AND GROUT
- BUILDING LIME
- ADHESIVES
- MASONRY UNITS
- CONCRETE PAVING BLOCKS
- PRECAST CONCRETE PRODUCTS ELEMENT FOR FENCES
- STEPS FOR UNDERGROUND MAN ENTRY CHAMBERS

- NEW EQUIPMENT
- NEW PERSONNEL
5. REQUIREMENTS TO ACHIEVE TARGETS

a) GENERAL
b) EQUIPMENT
c) TRAINING
a) GENERAL

AUTHORISATION OF R&D INSTITUTE FOR CONFORMITY ASSESSMENT AND MARKET SURVEILLANCE BY MINISTRY OF PUBLIC WORKS AND SETTLEMENT
b) EQUIPMENT TO BE PROCURED

PLEASE REFER TO ANNEX 2
c) TRAINING (Annex 3)

- ADDITIONAL PERSONNEL NEED FOR THE EXTENSION OF THE SCOPE OF R&D LABORATORIES
  - TWO SPECIALISTS
  - TWO TECHNICIANS
  - TWO WORKERS
- FOR THE USE OF NEW EQUIPMENT AND METHODOLOGY
### 6. TIME SCHEDULE (TENTATIVE)

<table>
<thead>
<tr>
<th>TIME REQUIRED</th>
<th>(MONTH)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EQUIPMENT SUB-TOTAL</strong></td>
<td>6</td>
</tr>
<tr>
<td>• GENERAL PREPARATION</td>
<td>1</td>
</tr>
<tr>
<td>• DEFINITION OF SPECIFICATION</td>
<td>1</td>
</tr>
<tr>
<td>• COLLECTING OFFERS</td>
<td>1</td>
</tr>
<tr>
<td>• EVALUATION AND SELECTION OF OFFERS</td>
<td>0.5</td>
</tr>
<tr>
<td>• PROVISION OF EQUIPMENT</td>
<td>2.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TIME REQUIRED</th>
<th>(MONTH)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TRAINING SUB-TOTAL</strong></td>
<td>6</td>
</tr>
<tr>
<td>EQUIPMENT</td>
<td>1</td>
</tr>
<tr>
<td>RECRUITMENT</td>
<td>2</td>
</tr>
<tr>
<td>TRAINING OF NEW PERSONNEL</td>
<td>3</td>
</tr>
</tbody>
</table>

| TOTAL | 12 |
7. BUDGET (TENTATIVE)

€

• EQUIPMENT 538.500
• TRAINING 61.500
• TOTAL 600.000

TÇMB (%40) 240.000
EU (%60) 360.000

TCMB’S SHARE EXCEEDING ITS FINANCIAL CAPACITY

NEED FOR POSSIBLE INCREASE IN EU’S CONTRIBUTION