

Training and Capacity Development Program (TCD)

TRAINING ON ALUMINUM INDUSTRY

1. Brief on the Training Topic

A. Aluminium Metal & Alloys, Properties and Application

- Aluminium Metal: Characteristics, Occurrence, Reserves
- Aluminium Alloys
- Aluminium products
- Application

B. Production Technology:

- Production of Alumina from Bauxite
- Aluminium Smelting
- Refining and Alloying
- Semi-fabrication (Rolling, Extrusion, Casting, Forging)
- Finishing

C. Aluminium Industry Structure

- Value chain
- Global Aluminium Industry
- GCC Aluminium Industry
- Industry Trend

D. Identification of opportunities and Project Profile

- Methodology
- Conception of Project
- Market Analysis: Foreign trade analysis, Local Production, Past consumption, Market size, Growth rate, Demand Projection
- Technical analysis: Technology, Process, Equipment, Requirement of Input materials, Requirement of Utilities, Requirement of Manpower, Implementation Schedule

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E. Project Cost Estimate and Financial Analysis

- Investment cost
- Production Costs
- Financial Appraisal
- Sensitivity Analysis

2. **Duration**: 2 days.

3. **Schedule**: 22 – 23 April 2009

4. **Instructors** :

- Mr.Shambu Prasad
- Mr.Paran PAinieker
- Mr.Puthezath Venugopal

5. **Target groups**:

- Ministry of Industry
- Industrial Area Authorities
- Banks
- Financial Institution
- Chambers of Commerce and Industry
- Private Investment Houses
- Individual Investor
- Manufacturing Units in Aluminium Sector

6. **Benefits to Target groups**

Development of capability of participants in:

- Basic knowledge of technology of production of Aluminium
- Understanding of aluminium industry value-chain.
- Project identification
- Evaluation of projects of interest

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7. Training Programme

First Day		
Time	Schedule	Topic
09:00 am - 10:00 am	Session 1	Aluminium Metal & Alloys, Properties & Application
10:00 am - 10:30 am	break	
10:30 am - 12:00 pm	Session 2	Production Technology
12:00 pm - 12:30 pm	break	
12:30 pm - 1:30 pm	Session 3	Aluminium Industry Structure
Second Day		
09:00 am - 10:00 am	Session 4	Identification of Opportunities & Project Profiles
10:00 am - 10:30 am	break	
10:30 am - 12:00 pm	Session 5	Financial Analysis
12:00 pm - 12:30 pm	break	
12:30 pm - 1:30 pm	Session 6	Typical Project Profile Illustration
1:30 pm	Ceremony	