IN THE NAME OF GOD

Technology Approach in Industrials and Mineral Sector of Iran

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- Knowledge based Management
- Sustainable Development
- Advanced Technologies
- Design Processing
- Industrial Development Strategy
- Environment
- Main Programs

- **Knowledge based Management**

Through utilizing of knowledge based management, the industrial and mineral development and growth of countries could be considerably accelerated.

Economy based development has been replaced by technology based development and consequently has affected the world economy through drastic increase of added value resulting from utilization of more advanced technologies.

- **Sustainable Development**

Sustainable development has some quantitative elements such as sustainable production, sustained products which necessitates proper quality, competitive price, good services and sustained characteristics.

The strategy for import substitution is not acceptable. In fact, considering only local and internal market, while ignoring the competitiveness, will practically deviate the developing countries from sustainable development.

For a sustainable development, the bench marking shall be defined globally and compared with international measures.

The technical standards shall be taken into consideration and shall be upgraded while comparing with international standards.

- **Advanced Technologies**

For developing countries, approaching to the new and advanced technologies is much easier than adopting medium technologies and its dependent industries.

The advanced technologies due to creating high added value may be adopted even in small scale industries which require lower investment, and in the meantime, due to better space in global markets have better competitiveness.

The innovation and creativity hidden in the substance of the Iranian people can play a significant and key role in increasing the flow of technology in industrial and mineral sector.

Nanotechnology can be referred to as one of the technology causing for the world industrial revolution.

- **Design Processing**

One of the important parameters in sustainable industrial development would be safeguarding the continuous and counterbalance relation between technology and design processing.

Utilizing the added value resulting from designing in industrial and minerals investments projects could be included in developmental programs.

Collaboration and integration with potential international enterprises for promotion of designing capabilities and to put it in the same direction with new technologies will be fruitful.

- **Industrial Development Strategy**

The document of country strategy for industrial development has been compiled.

This document emphasizes on important parameters and guidelines such as competitiveness, sustainable development, proper utilization of advanced technologies and technology development in line with global direction.

Existence and sustainability of manufacturing and developing is greatly dependent on R&D.

- **Environment**

One of the key factors in industry and mine sector, is environment and its related standards. Attention shall be paid to “dual economy considerations”.

By applying “dual economy considerations” methodology, changing production parameters and condition in factories and offer industrial and mineral plants, we will witness considerable decrease in costs.

As for Iran, considering its huge gas resources, strategy of dual economy considerations may be applied in various fields through appropriate planning and effective utilization of such resources.

Application of advanced technologies also would reduce pollution and provides required ground for qualitative and quantitative improvements and increase productivity resulting from investments.

• Main Programs

• Compilation of document related to Industrial development.

• Strategy and compilation of strategy related to its selected sub sectors. The strategy emphasizes on requirements for it's implementation such as preparation of proper environment including legal, cultural , economical, financial, research and technological development environment.

• Compilation of document productivity development of industrial and mineral sector.

• Compilation of document related to research and technology development in Industrial and Mineral Sector.

• Name and information technology strategy and long term development plans.

• Main Programs

• Implementation of comprehensive technological projects in Industrial and Mineral Sector.

• Compilation of special plan in Industrial and Mineral Sector.

• Establishment of advanced research centers for certain industrial and mineral fields.

• Establishment of the trust private sector research found with government share. The society of Industrial and Mines R&D with about 1000 members.

• Establishing specialized companies in the field of advanced technologies with collaboration of local and foreign private sectors for development of high technology base.

• Providing financial and technical supports through various research and study projects and in industrial prototypes.

• Main Programs

• Establishment of Advanced Industrial Center and adapting venture capital mechanism.

• Establishment of advanced research centers.

• Preparation for employing human resources required for industrial and mineral sector through implementation of various projects.

• “FAJED” (Universities Young Graduates) is considered as one of these projects. Based on this project over 10000 university graduates, (B.S and higher degree) have been employed in east three years industrial and mineral sector.