

UNIVERSITÉ-ÉDUCATION REGIONALE

Le Centre de Recherches Régionales, tenu par des grands spécialistes de la coopération, constitue le point de départ de toutes les actions de coopération régionale.

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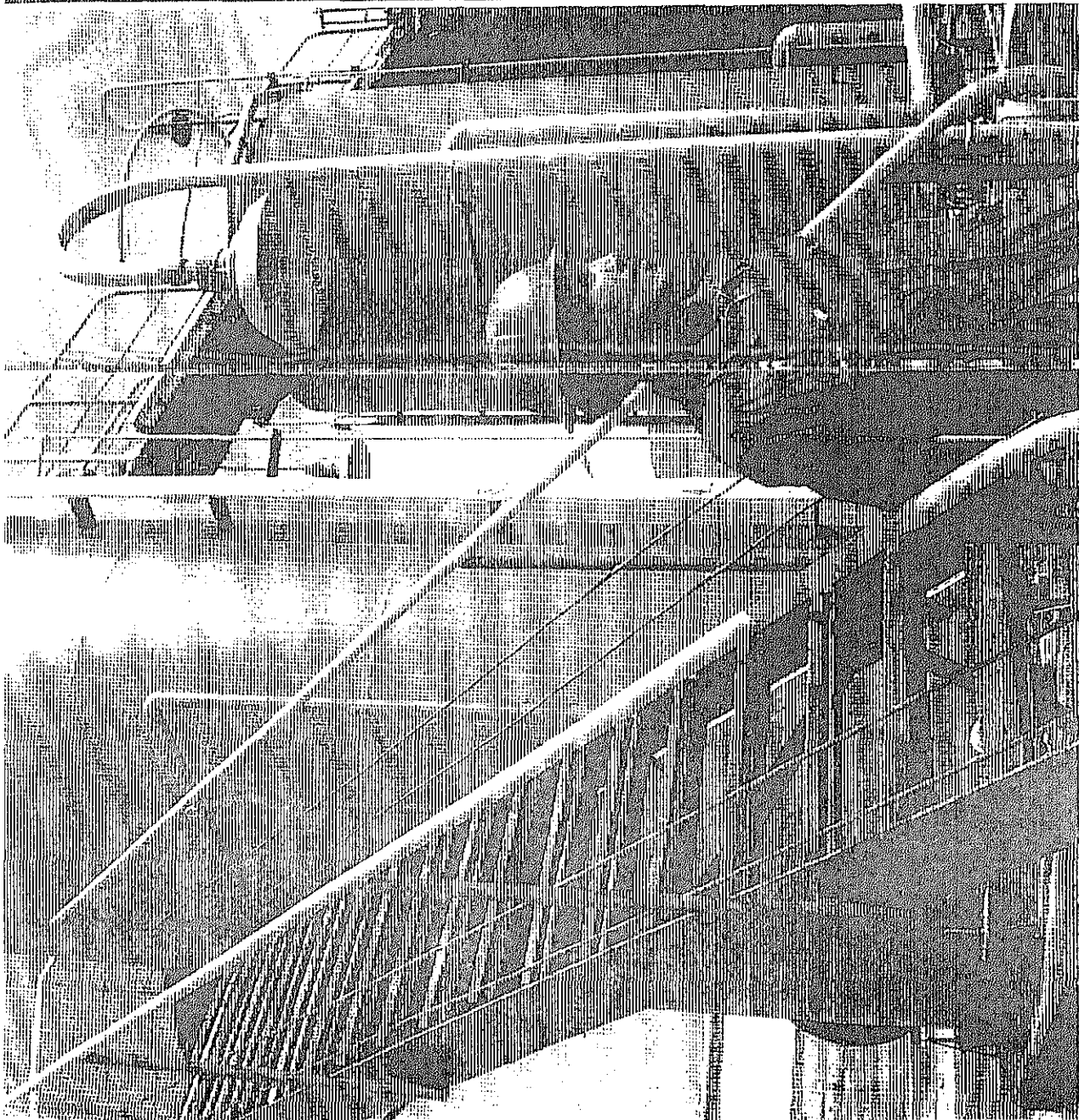
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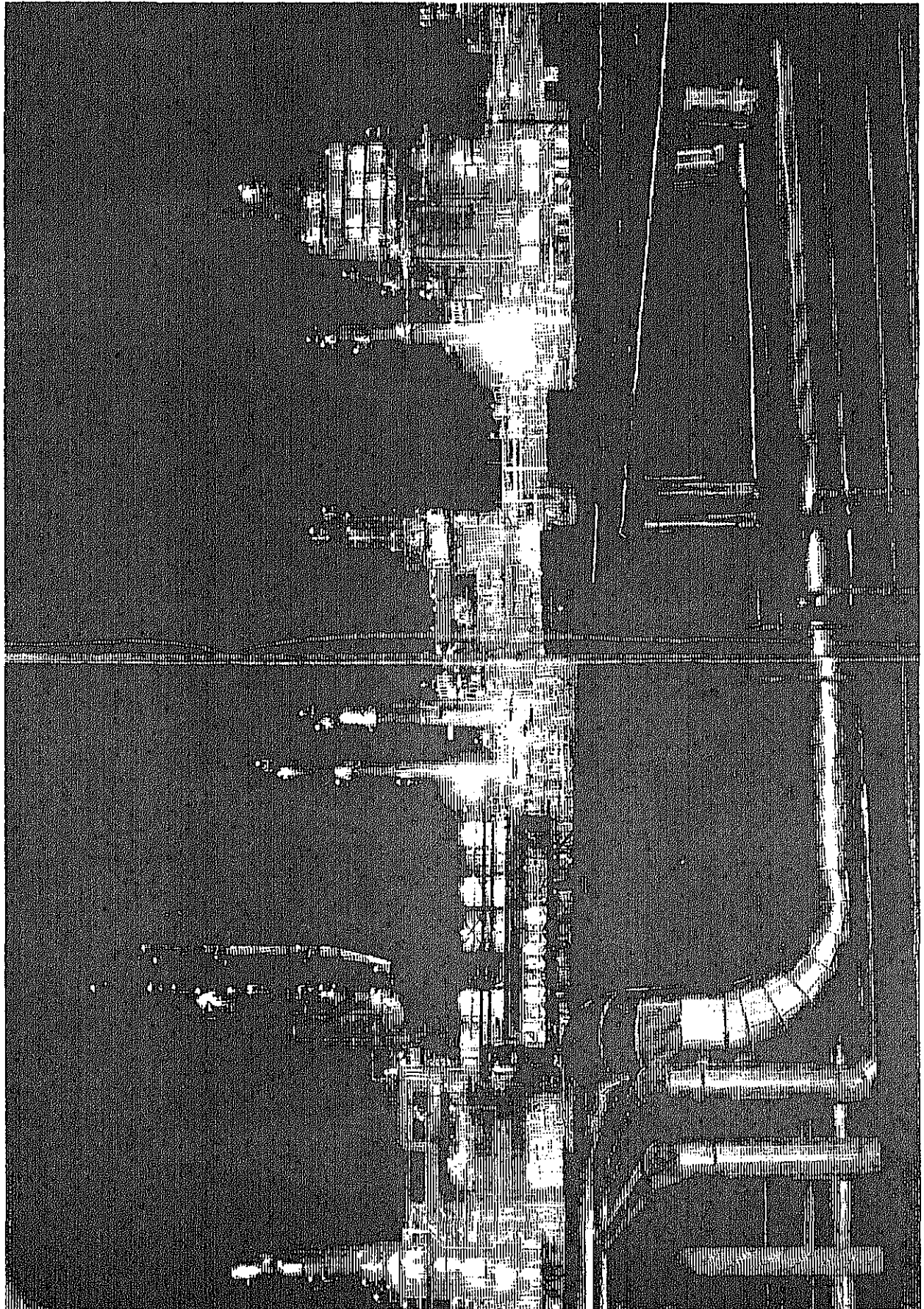
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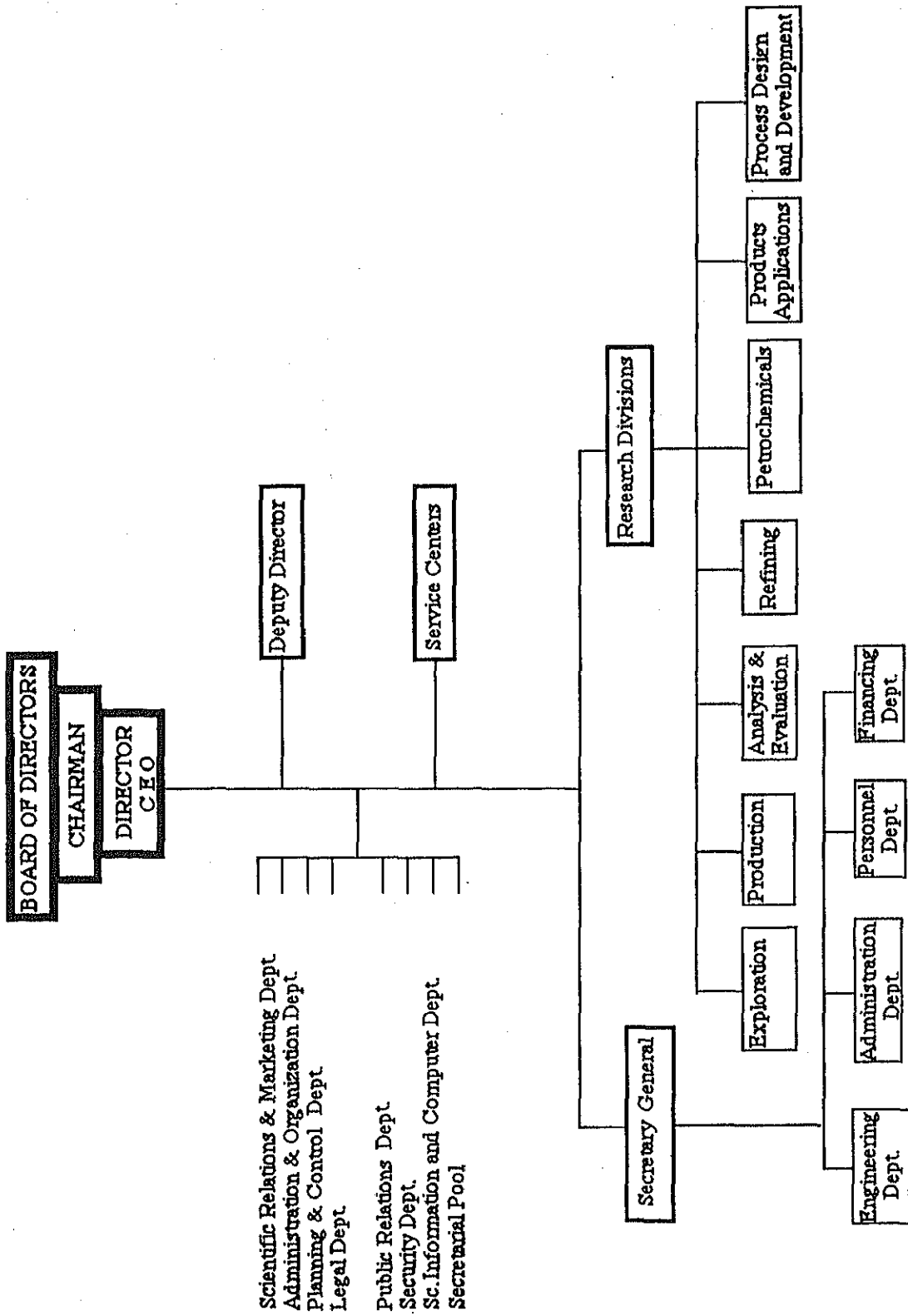
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EGYPTIAN PETROLEUM
RESEARCH INSTITUTE
(EPRI)

ORGANIZATIONAL CHART



EPRI's BUDGET (L.E.)

YEAR	GOVERNMENTAL BUDGET	SELF-GENERATED INCOME	TOTAL
89/90	3 522 106	2 507 373	6 029 479
90/91	3 176 400	3 912 225	7 088 625
91/92	3 701 200	4 217 720	7 918 920

FIRST STAGE

1956 - 1969

Formation of Scientific, Technical
and Research Personnel.

Development and Supply of
Scientific Equipment to Research
Laboratories.

SECOND STAGE

1970 - 1976

Cooperation with the French Petroleum Institute with the aim of :

- a- Formation of Scientific Personnel.
- b- Collaboration in joint research projects, e.g.
 - Proteins from Algae
 - Production of lube oil additives
 - Evaluation of the Petroleum Potential of the Jurassic in Egypt.

THIRD STAGE

1976 - 1986

A- Implementation of an oriented research plan serving the petroleum sector, including:

1. Evaluation of some catalysts.
2. Production of detergent and dispersant lube oil additives.
3. Evaluation of July and Ramadan Crudes.
4. Study of oil pollutants in the Red Sea.
5. Development of better locally produced lube oil base stocks.
6. Improvement of pour point and flow characteristics of middle distillates and residual

fuel products.

7. Evaluation and quality amelioration of asphalt and asphaltic mixes.
8. Enhancement of butagas production.

B- Analytical Services:

- P.V.T. analysis.
- Analysis and evaluation of crude oils and products.

C- Consultations:

- Asphalt.
- Environmental pollution.

FOURTH STAGE

1987 - Present

Restructuring of EPRI's orientations towards pilot and full-scale implementation of research achievements and running the institute according to the petroleum sector's company systems, through :

1. Erection of Specialized Service Centers :
 - Production Services Center.
 - Cleaning and Maintenance of crude oil storage tanks Center.
 - Asphalt Services Center.
 - Ore dressing and Services Center.

2. Advanced Studies :

- Lube oil additives.
- Asphalt products.
- Energy Conservation .
- Production of Plasticizers.
- Enhanced oil recovery.

FUTURE PROSPECTS

1. Construction of pilot plant units, e.g. for plasticizers , chemicals production and carbon fibers (low modulus) .
2. Establishment of an organic geochemical analytical Services center.
3. Training on the local Arab and regional levels.
4. Organization of Arab and regional meetings, workshops, seminars and congresses.

Exploration Division

SPECIALTIES:

Field Geology and Cartography,
Sedimentology, Stratigraphy,
Geochemistry and Geophysics.

STAFF:

Geologists: 16 Ph.D.'s of 40.
Technicians , Secretaries and
Administratives : 15.

PROJECTS:

Evaluation of Sedimentary Series
for Petroleum Prospection:

- a- Eocene of Western Desert.
- b- Jurassic of Western Desert.
- c- Nubia Sandstone of Suez Gulf.

SERVICES:

- a- Studies: Sedimentology and Biostratigraphy of Wells for Petroleum Companies.
- b- Technical Services: With Scanning Electron Microscope.
 - Thin Section Imprignation.
 - Elemental Geochemistry.

JOINT RESEARCH :

- a- Spec Studies Between EPRI / GEOCHEM (England)
- b- Data Base for Sedimentary Petrology (Global Project).
- c- Recent Marine Sedimentation (EPRI / RUSSIA).

Production Division

DRILLING AND CEMENT LAB.

- Contract (2 MM LE) with PETROJET to produce special grade ilmenite from the Southeastern Desert for substitution of the imported ore utilized in concrete cladding of offshore petroleum pipe-lines.
- Consulting contract with PETROJET (LE 30 000) for pipeline protective heavy coating quality control.
- Research project on " Chemicals Used in the Petroleum Industry," with ASRT.
- Study on "Substitution of Imported Ores Used in Oil-well Drilling

by Local Ores," (i.e. Bentonite, Attapulgitite and Barite).

- Services for Petroleum Companies in the field of drilling fluids and cementing of oil-wells.

P V T LAB.

- It conducts analyses of both surface and subsurface samples provided by exploration and production companies in Egypt. More than 200 samples have been analyzed from 1980 till now.

CORE LAB.

- It carries out both routine and special core analyses. It serves most of the oil companies in Egypt.

I P R LAB.

- It investigates different techniques of improving petroleum recovery. It is presently involved in "Improving Oil Recovery from Egyptian Oil-Fields," funded by ASRT.

Analysis & Evaluation Division

ACTIVITIES :

- Methods of chemical analysis using spectrometric, chromatographic and electrochemical techniques as well as standard methods of analysis of petroleum and related materials (ASTM, IP,...).
- Analysis of petroleum and its products as well as associated waters and related materials .
- Studies on the environment (air, water and soil) and petroleum pollution .

ANALYTICAL SERVICES:

Presented to :

- Petroleum & industry companies

- Research centers and institutes as well as universities.
- Other Divisions of EPRI.

PERSONNEL TRAINING:

Presented to chemists mainly in petroleum and industry companies including the following courses :

- Instrumental methods of chemical analyses.
- Analysis and evaluation of petroleum and its products.
- Environmental pollution with petroleum.

Petrochemicals Division

RESEARCH FIELDS :

Surface Active Agents:

Detergent Formulations, Emulsifiers, Wetting Agents, Oil Spill Dispersants, Foam Inhibitors and Foam Stabilizers, Softener for Textiles, Demulsifiers and Superplasticizers.

BIOCIDES:

Bactericides, Fungicides, Algicides and Pest Control Agents.

POLYMERS:

Plastics, Rubber, Adhesives, Paints Fire Retardants, Semiconducting

Polymer , Photodegradable and Biodegradable Plastics.

RESEARCH PROJECTS:

- " Control of Emulsions in Oil Basin and Ballast-Water."
- " Restoration of the Sphinx Using Epoxy Polymers."
- " Plasticizers."

RESEARCH STAFF 21 Ph.D.'s
TECHNICAL AID 26 Persons

TRAINING:

PETROCHEMICAL INDUSTRY COURSES.

Products Application Division

SPECIALTIES:

- Additives:
 - Production of Lube Oil and Fuel Additives.
 - Production of Special Chemicals
- Asphalts:
 - Reuse of Aged Asphalts.
 - Production of Emulsions.
 - Soil Stabilization.
- Special Applications:
 - Synthetic Oils.
 - Organosilicon Compounds.
 - Contract with PETROJET for plastic lining of pipe-lines.

SERVICE CENTERS:

- Tank Service Center .
- Asphalt Service Center.

STAFF:

- 65 Scientific and Technical Persons.

Process Design and Development Division

DISCIPLINES:

- Reaction and process Engineering
- Energy and Materials Engineering
- Specialty Process.

PERSONNEL :

30 Research Staff and Technicians.

PROJECTS COMPLETED :

- Catalytic Dewaxing of Lube Oils.
- Energy Conservation in :
 - Glass Industries.
 - Fertilizer Industries.
 - Petroleum Industries.

AREAS OF INTEREST:

- Process Simulation :
 - Steady State Process Simulation.
 - Specific Reactor Simulation.
 - Dynamic Process Simulation.
 - Process Optimisation.
- Process Technologies:
 - Catalytic Dewaxing.
 - Heavy Residues Demetallization.
 - Heavy Crudes Better Utilization.
 - Catalytic Cracking.
- TRAINING:
 - Inspection and Technology of Materials.