



IRCC Annual Report 2017

Dr. Widad Hassan Abdulhalium
IRCC, Director-General



IRCC HISTORY

- Established 1965 with help from UNDIO
- National non-commercial Centre
- 2002-2010 affiliated to Ministry of Science & Technology
- Affiliated to Ministry of Industry 2010





FUNCTIONS



Research

- Conduct R&D research
- Standards specification
- Participating in laying down national industrial development plans
- Assist in the preparation of standard specification for the local industrial products

Technology Transfer and Capacity Building

- Transfer technology
- Addressing the causes of food insecurity
- Training programs



FUNCTIONS



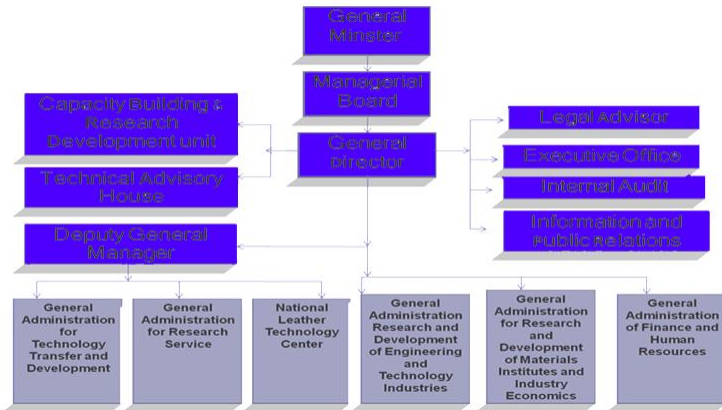
Consultancy

- Consultation services on industrial planning, production management and product design and development
- Techno economic feasibility studies
- Prepare and marketing industrial information
- Dissemination industrial awareness





ORGANISATIONAL AND FUNCTIONAL STRUCTURE

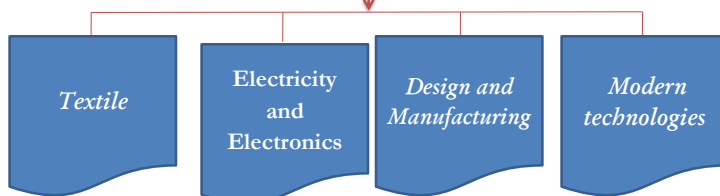


Engineering Industries Research Institutes



Engineering Industries Research Institutes

"General Directorate"





Research and development of material institutes and industry economic



*Research and development of material institutes and industry economic
"General Directorate"*



Building materials and refractory

Chemical industries

Cleaning Production

Food Industry

Industrial Economies research Institute



Research and development of material institutes and industry economic



Technology Transfer and Localized



Research Promotion

Intellectual Property Rights

Development of Small industries

Engineering Technology

Microfinance



Research Services



Research
Services
“General
Directorate”



information,
Documentation
and Publication

Central
Laboratory

Workshops

Experimental
units

Quality
Assurance



National leather technology center



National leather
technology
center “General
Directorate”



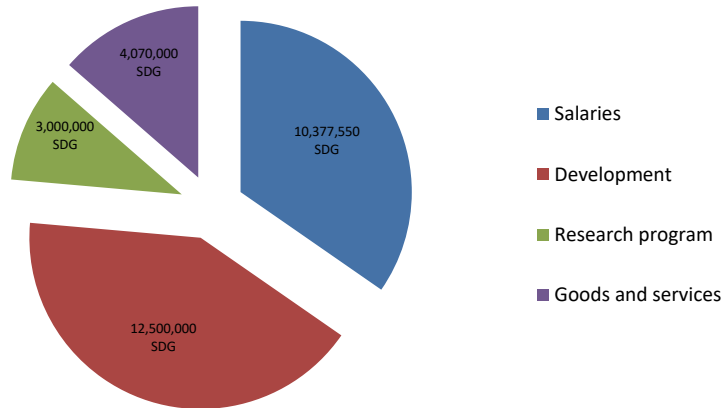
Leather
processing
research.

Footwear and
Leather
products.

Leather
processing
materials



IRCC's 2017 Budget



IRCC FACILITIES

- Fully equipped and integrated tannery
- Pilot plant for chemical
- Electronic quality control and testing lab
- Advanced industrial information Centre
- Physical and mechanical testing lab
- Engineering design lab
- Central lab





Researchers

6

professor

29

Associate
Professor
Researchers

23

Assistant
Professor
researchers

17

Researchers

68

Assistant
researchers

44

Technician



- IRCC is member of Sudan Academy of Sciences Federal union.

Certified college in engineering:

- MSc Cleaner production
- MSc Mechanical Engineering Design
- MSc Refrigeration & Air conditioning
- Mtech Electrical energy production

SUDAN
ACADEMY
OF
SCIENCES



IRCC REGIONAL AND STATE BRANCHES

- Signed agreements with four states to establish IRCC departments
- Studies in process to identify potential in each state
- Creation of industrial map for each state



IRCC RELATIONS



COMSATS Institute of
Information Technology
Lahore Campus





IRCC major Activities :



- The Continuous National Program of Industrial Development in Sudan.
- The Soybean Value Chain Development.
- UNISCO Chair In Transfer of Technology.
- Drugs Extraction from Natural Plants for Neglected Diseases.
- UNIDO- Pilot Demonstration Project on Leather Sector -SUDAN
- Sudan National Cleaner Production Centre (SNCPC).
- Engineering design & manufacturing research Institute .



Publications



- INDUSTRIAL GUIDANCE AND BOOKLET
- INDUSTRY AND DEVELOPMENT
- INDUSTRIAL RESEARCH JOURNAL

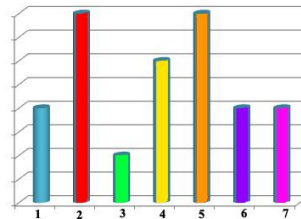




RESEARCH 2017

A. With a budget of 3.7 million SDG; a total of 20 research projects in different 8 sectors were implemented as follows:

1. Small Business Development (2)
2. Local Knowledge and Rural Industrialization Development (4)
3. Renewable Resources and Sustainability (1)
4. Efficiency of Manufacturing Processes (3)
5. Innovation and Agro- Industrialization (4)
6. Modern Technologies – Nanotechnology (2)
7. Competitiveness of the Sudanese Industry (2)



RESEARCH 2017

B. Publications: 26

C. Achievements and Awards(3):-

- Dr. Omer Kamal: Outstanding International Student (First Prize), 2016-2017
- Dr. Yagoub Elrayah : On the Priorities of Comparative Advantage of Agro – Industry7Commodities: the way Towards Economic Transformation, 2017&Dr Dalia Algadi

D. IRCC Joint Research Programs:

- Banana Value Chain Project
- Peanuts Value Chain Project
- Designing of Low Cost Laboratory Devices

E. Strengthening the effectiveness and efficiency of the research system





RESEARCH 2017



F. Industrial Development Partnerships:

- Manufacturing Distillation unit for Medicinal and Aromatic Plants.
- Paper Recycling Project
- Installation of Chalk Machine
- Soybean Value Chain Project
- Packing and Packaging Incubators
- Quality Evaluation of Edible Oils in Khartoum State
- Quality Evaluation of Bread from Composite flour
- Food Fortification with Micronutrients Project:
 - Modernization of Salt Industry in Sudans
 - Wheat Flour Fortification with iron
 - Oils Supplementation with vitamin A

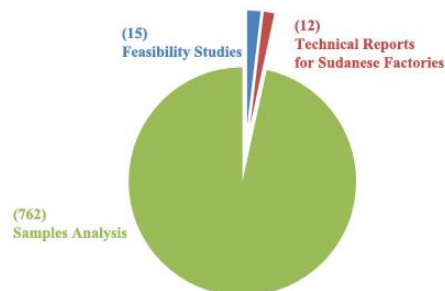


Feasibility Studies and Technical Reports 2017



Implementation of:

- Feasibility Studies
- Technical Reports for Sudanese Factories
- Samples Analysis





Capacity Building 2017

Place	Number of Training Courses	Number of Trainees
Inside Sudan	12	89
Outside Sudan	3	12



Infrastructure and Rehabilitation Projects

- Rehabilitation of the Engineering Workshop
- Digitization of Library
- Rehabilitation of IRCC Training Unit
- Establishment of Cleaner Production Labs
- Pilot Plant Paper Waste Recycling





National projects

1- The National Project for Industrial Development (Tatweer):

The National Project for industrial development is an integrated program that aims to create an industrial, knowledge, technological, skill and economic movement through six key pillars targeting human, applied research, consultancy,, modern technologies and manufacturing accompanying the interests of the partners.

❖ The Project Themes:

1. The theme of scientific research (innovation).
2. The theme of consultancy work (consultancy).
3. Theme of technology transfer and localization (technology).
4. The theme of capacity building (perfection).
5. Theme of awareness and industrial guidance (guidance).
6. Theme of traditional industries (manufacturing).



البرنامج الوطني للتطوير الصناعي



National projects

❖ Implemented Activities:

1- Training Courses:

Number of Training Courses	115 specialized industrial courses in all states of Sudan
Number of Trainees	15,000 trainee

2- Researches: 6 Joint Research Program

3- Consulting:

Implementation of 35 Feasibility Studies

2016	15
2017	25

4- Technology Transfer

5- Incubate Innovators

6- Development of Traditional Industries: Utilization of Palm Waste (Palm fronds)



The National Project for Industrial Development (Tatweer)



National projects



2- The National Cleaner Production Center :

- The Project Document was Finalized and approved by minister of industry
 - And UNIDO .
- Current Projects: IWEX Project with the Egyptian Cleaner Production Center
 - Partnerships Programs with FAO and UNIDO





International Cooperation

1- UNSECO Chair on Transfer of Technology:

- The agreement was signed in 2017.
- The First Board Meeting (2018) : Evaluation of the Chair's Work Plan in 2017
- and approved the Plan of 2018 .

2- Institute of Engineering Design – Pakistan :

POC with PCSIR

3- cooperation with Egypt Cleaner Production Center :

Waste Recycling Project. African Development bank project

4- WAITRO :

Benchmarking Project

5- Institute of Modern Technologies – Nanotechnology

6- COMESA:

Packing and Packaging Incubators
(Women Empowerment Project)



International Cooperation

6- COMSATS:

There are number of programs and projects that were committed earlier and that are ongoing and planned for the future:

- COMSATS IT Centre
- Mechanical Engineering Design
- POC Agreement with PCSIR
- Pulp and Paper Plant
- COMSATS Joint Research Program
- Publications
- Participations in COMSATS activities
- COMSATS international thematic research Groups (ITRGs)
- COMSATS Institute in Sudan





future prospects for collaboration under COMSTS
Network

1-Joint research project

Continuing with PCSIR and ICCBS- Pakistan

2-Capacity Building Activity

CPA in renewable energy ,waste management ,product
from essential oils ,Mining ,mechanical design

**3-technology transfer and to join the ITRG in
Renewable Energy**



شُكْرًا جَزِيلًا
THANK YOU
GRACIAS
ARIGATO
SHUKURIA
DANKS
TASHAKKUR
ATU
YAKHANYELAY
TUNGSI
BIYAN
SHUKR
GRATIE
MEHRDANI
GOZARASHATA
BYCHWISTO
KONGZUANGDA
JUSPAZAR
BOLZIN
MERCY