



INDUSTRIAL RESEARCH AND CONSULTANCY CENTER (IRCC), KHARTOUM, SUDAN “PROGRAMMES AND ACTIVITIES”

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Greetings and thanks
are extended to:



COMSATS
Executive Director,
Ambassador
Dr. M. Nafees Zakaria

Deputy Director, Farhan Ansari

Additional Director, Irfan Hayee

Dr. Huma
and the rest of COMSATS Headquarters and
Secretariat

**Greetings are extended to respected Heads of COMSATS'
esteemed Centres of Excellence**



IRCC BACKGROUND



- ◉ IRCC, Sudan, was established in 1965 with the assistance of UNIDO as a national noncommercial center for industrial research & development and industrial consultancy.
- ◉ IRCC conducts applied researches and provides consultancy services to the public and private industrial sectors in Sudan, focusing on efficient utilization of material and resources.
- ◉ IRCC is the **technical arm of the Ministry of Industry**; it acts under the umbrella of the **Minister of Industry**.



IRCC Vision and Mission

The Vision

- To efficiently contribute to the wellbeing of the Sudanese people as a scientific institution through technology development and localization, thereby increasing the productivity and competitiveness of the Sudanese industry regionally and internationally via effective collaboration with partners and stakeholders.

The Mission

- To effectively conduct research and consultation activities to achieve higher utilization of national resources, increase added value and industrial quality, as well as design innovative high-quality products to achieve higher competitiveness of products and national consultation services.

IRCC's scope

R&D on local material as industrial inputs.

Design and engineering of small industries and related technology localization activities.

Technical feasibility studies for the private and public sector.

Provide consultancy services in industrial design, engineering process production management, costing, management systems, quality assurance and product development.

Contribute to creating national industrial development programs and plans.

Contribute to standardization of local industries.

Establish a national knowledge center and participate in effective networking with similar institutions.

Raise awareness regarding matters related to the industrial field.

Mature researches by 2023

1. Soy bean Value Chain project:

- ⦿ The project is one of the IRCC mature researches, at marketing stage. In March 2023, a Memorandum of Understanding was signed between IRCC and the Administration for Civil Work Development (belongs to Defense Industries System) to implement the project by the later.
- ⦿ The implementation includes cultivation of soybeans in large areas, processing and marketing of soybean products.

Mature researches

2. Development and production of essential oils and aromatic plants in Sudan

It is a joint research with Medicinal and Aromatic Plants Institute, National Research Centre, Sudan.

The objectives of the research are:

- to add value to aromatic plants cultivated in Sudan;
- to encourage establishment of essential oils industry in Sudan;
- to create fields of work opportunities for local labors and to utilize the wild aromatic plants that used in traditional medicine in Sudan.

On the other hand, this project can support the exports of medicinal and aromatic plants and their products as well as reduction or replacement of their imports.

On-going researches

- Project entitled “Utilization of wood and agricultural residues as sources of biomass energy in Sudan by producing bio-oil by pyrolysis process”.
- The proposed researches to be conducted in 2023 are delayed due to financial issues related to the country.

Capacity building activities

- ◉ The Leather Technology Center conducted “Foot-wear and leather goods manufacturing training workshop” targeting certain local communities interested in manual manufacturing of leather products in order to improve their products quality.
- ◉ The UNESCO Chair on Transfer of Technology-IRCC conducted the 3 days training workshop “Investment Projects Preparation and Appraisal and Applications of COMFAR (Computer Mode for Feasibility Analysis and Reporting) Software” aimed to acquaint the participants with time-tested and internationally accepted methodological tools for project preparation and appraisal.



Joining COMSATS activities

- ◉ Industrial Economic Research Institute leaders at IRCC join the online training workshop “Sixth term of ANSO-BIDI School for Innovation and Entrepreneurship, sustainable Development and Leadership Enhancement”, organized by COMSATS and the Alliance of International Science Organization (ANSO) and the Centre for Environmental Economics of the University of Chinese Academy of Sciences (CEE-UCAS), China , 17th March-May 2023.
- ◉ Two researchers secured ANSO Ph.D scholarship, March 2023.

Publications

- Processing the 24th issue of *Journal of Industrial Research* which is a biannual peer-reviewed, free of publication or processing charges journal, which is designed for publication of scientific researches in the different industrial disciplines.
- Editing the 24th issue of *Magazine of Industry and Development*. The magazine is a biannual, aiming to raise the industrial awareness and exchange of industrial experiences and information between the national industrial society.

Activities with International Partners

WAITRO Benchmarking Project

IRCC involved in the WAITRO online Benchmarking System, which aimed to enable WAITRO members to improve their RTO management processes and performance.

UNESCO Chair on Transfer of Technology

IRCC hosted the UNESCO Chair on Transfer of Technology since 2017.

On April 4, 2023, the IRCC received the renewal letter extending the validity of the agreement between UNESCO and the IRCC, concerning the hosting UNESCO Chair on Transfer of Technology until June 30, 2025.

Miscellaneous activities

- ⦿ Participation in the workshop “Sudan Scaling Up Nutrition (SUN) Research and Academic Network (RAN) Advocacy”, which aimed to re-launch the RAN network and orient the research and academia community on how they can contribute towards the reduction of malnutrition in Sudan through the network and collaboration with others, organized by the Federal Undersecretary of the Ministry of Health (13-14/March/2023).
- ⦿ Participation in some national workshops and programmes in the field of IRCC disciplines.

IRCC FUTURE PLANS

- ◉ Conducted researches/joint researches that contributes to the Sustainable Development Goals 2030.
- ◉ Concentration on applied researches in the field of transformative industries and sustainable energy.
- ◉ Rural industries development.
- ◉ Establishing different Industrial Incubators in IRCC various disciplines.

IRCC CHALLENGES

- IRCC activities has ceased since **April 15, 2023** when an internal conflict and war between the national army and an split army (militia)started.
- The war resulted in a sever destruction of infra-structures of vital sectors in the country, included academic and research institutes.
- About 90% of the industrial sector were destructed.
- IRCC among the destructed institutions. Unfortunately, at the beginning of the war, IRCC subjected to robbery of all computers, different servers, workshops and laboratory instruments & devic& equipments, furniture and vehicles, before subjected to burning.
- IRCC couldn't participate in most of COMSATS activities since April 2023 due to lack of all types of communication aids in Khartoum and some other States.

IRCC challenges

- Post-war reconstruction and rehabilitation of IRCC.
- Participation in the post-war reconstruction of the national industrial sector.



Industrial Research and Consultancy Centre, Khartoum until 15/ April 2023



Industrial Research and Consultancy Centre, Khartoum after 15/ April 2023



Some offices



Ashed files



Burned Staff ID files and records



A laboratory



The library

Thank
you

