IRCC is a nonprofit organization with moral personality, having eminent Board of Directors. Working on the light of IRCC (act 1968 amended 2018).

IRCC Mandate: to undertake Industrial Research and Consultancy Services and disseminate findings that will have a positive impact on national industrial development.
IRCC is continuously and strongly contributing in the production of innovative results, for sustainable development, as well as is reliable partner to the Sudanese Industry.

Our researchers & students expect:
- Excellent Research Training & Experience
- Attractive Recruitment & Research Career Path
- Innovation-Embedded Curricula
- Increase Publication in Impact Factor Journals
- Build Capacity for High Impact Publication

Our industry partners & sponsors expect:
- High Value Creation Research & Innovation
- Strong Knowledge Pool & World-Class Expertise
- Flexible Contract Research Management
- Enhance Research Delivery System
- Strengthen Centers of Excellence
- Strengthen Multidisciplinary Research Focus
- Strengthen Solution Generation Capabilities

Our public & community expect:
- Global Research Prominence
- Outstanding Contribution to the Community
- Flexible Contract Research Management
- Enhance Research Delivery System
- Strengthen Centers of Excellence
- Strengthen Multidisciplinary Research Focus
- Strengthen Solution Generation Capabilities

Valuing and developing our research workforce
- Strengthen Research Capabilities
- Foster Competitive & Entrepreneurial Culture
- Valuing and developing our research workforce
- Efficient Recruitment of High Quality Research Staff

Resources/Financial sustainability
- Reliable Efficient Research Financial System
- Provide Excellent Infrastructure for Innovation
- Valuing and developing our research workforce
- Efficient Recruitment of High Quality Research Staff

Min. of Industry & Trade
- B Of D
- Legal Advisor
- Executive Office
- Internal Audit
- Information and Public Relation

Capacity Building & Research Development unit
- Consultancy House
- Deputy General Manager

General Administration for Technology Transfer and
- General Administration for Research service
- National Leather Technology Center
- General Administration Research and Development of engineering and Technology Industries
- General Administration for Research and Development of Materials Institutes and Industry Economics
- General Administration of Finance and Human Resource

ORGANISATIONAL AND FUNCTIONAL STRUCTURE
**IRCC Facilities**

- Consultancy House
- Fully Equipped and Integrated Tannery
- Physical and Mechanical Lab
- Electronic quality control and testing lab
- Engineering Design Lab
- Advanced industrial information Centre
- Pilot plants
- Research Farm

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

Certified college in:

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

- MSc &PhD By research In all Research Industrial sectors
RESEARCHERS

2018 PROGRESS REPORT
major Activities

**Research & Development**
2018 Research Plan
Industry – Academia collaboration - Arab Industrial Development and Mining Organization (AIDMO)

**Valuing and developing our research workforce**
Establishment of:
National Cleaner Production center (Industrial Waste Management and SMEs Entrepreneurship Hub in Sudan)
Institute of design engineering and institute of Nano-technology
UNISCO chair in technology transfer (Technical incubators for packaging products)

**Consultancy**
Development and value addition at the community level to support resilient and diversified livelihoods and resilience of local communities
Development of Oil, Flour & Salt Industry
Industrial Geo-Database

**Consultancy services**
National level:
Profiles (22)
Evaluation (7)
Technical Reports (18)
Feasibility Studies (12)

International level:
Verification Audit of HCFC Phase-out
Management Plan Auditing
Tanning Water Treatment Plant - White Nile State
Helping SMEs to grow through innovation
2018 PROGRESS REPORT  major Activities

Assessment of the technological gap in the industrial sector- adopting Inventors & Entrepreneurs. An implementation of small scale production units- Banana Stem Shredder – essential oil extractor

<table>
<thead>
<tr>
<th>Capacity Building Programs</th>
<th>Number of Trainees</th>
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<tbody>
<tr>
<td>Post graduate-studies</td>
<td>10 (4 PhD, 6 MSc)</td>
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<tr>
<td>Short training courses</td>
<td>3</td>
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<tr>
<td>Institutional and Technical training</td>
<td>20</td>
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</table>

- Household Industry According to the Modern Scientific Bases and its Role in Industrial Development (15-16 October 2018, IRCC & FASRC, Khartoum)
- International Industrial Expo (1-2 April 2019, IRCC, Khartoum)

WAITRO membership activation

2018 PROGRESS REPORT  major Activities

Technology transfer
Training and Capacity Building
Scientific Events
International relationship

2018 PROGRESS REPORT  major Activities

Ongoing Activities: Research Areas 2018

A total of 18 research projects in different 7 sectors are implemented

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 in Agro-Industrialization (4)
6. Modern Technologies – Nanotechnology (2)
7. Competitiveness of the Sudanese Industry (2)
### 2019 Initiatives

<table>
<thead>
<tr>
<th>Focus Area</th>
<th>Objectives</th>
<th>Action Item</th>
<th>Activities</th>
</tr>
</thead>
</table>
| Policies & Strategies                          | Valuing and developing our research workforce | All the key activities for strategic planning | - Strengthen Research Capabilities  
- Foster Competitive & Entrepreneurial Culture  
- Strengthen Industrial Experience In Innovation  
- Efficient Recruitment of High Quality Research Staff |
| Applied research towards sustainable development | - To agree on collaborative research program between.  
- High quality research | - Mapping the research needs  
- To identify areas for interaction  
- Lab accreditation  
- Thematic joint programs | - IRCC 2019 research plan as follow :  
- 5 projects in Development of knowledge and Small Industries  
- 6 projects in Agricultural manufacturing and renewable resources utilizations  
- 3 projects in Efficiency of industrial business |
| Consultancy services for industrial sector     | Create strong and innovative industrial sector | To build a knowledgeable and experienced technical platform to provide consultation to industry | Marketing  
- training  
- Food Based System Approaches to improve the Health and Wellbeing and Poverty Alleviation  
- Industrial Waste Management and SME Entrepreneurship Hub in Sudan  
- Packing and Packaging Incubators |
| Technology transfer                            | Bridge the existing technology gaps for national industrial sector | Technology Needs Assessment.  
- Share experience and best practices | Innovation prototype development .  
- IP management  
- Technology license |
| Capacity building and knowledge dissemination   | Enhance constituent capacity at member level towards social protection | Advising policy makers  
- Collaborative training and awareness, workshops, seminars | Customized Research Methodology.  
- An Integrated structural approach to join research for excellence in publication and community empowerment |
| UNISCO Chair for technology transfer           | Act as a plat form that allows commu. And coordi. Between different stake holder | Research Training  
- Scientific forum  
- Adopting inventors and inventions | Industrial Waste Management Workshop |
Collaborations with other Centers of Excellence

- Short-term visit program in Industrial Technology Institute (ITI), Sri Lanka
- Telehealth Program
- Postdoctoral fellowship (NRC, EAGYPT)
- Establishment of COMSATS' International Thematic Research Groups
- Proposal for Research Laboratories aimed at socio-economic development
- POC between PCSIR & IRCC
- Establishment of COMSATS Center Branch in Sudan

Science and Technology for achieving SDGs

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<tr>
<th>IRCC Intervention</th>
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<tbody>
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<td>Sudan Cleaner Production Center</td>
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<td>Training programs in the voluntary return and displaced areas through The National Project for Industrial Development</td>
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<td>Preserve of vegetables and fruits in Darfur state</td>
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<td>Sudan Third Communication Report for Climate Change</td>
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<td>Verification of Implementation of HCFCs (UNIDO)</td>
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<td>Rehabilitation of Suspended Factories Project through The National Project for Industrial Development</td>
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<td>Industrial Waste Mapping / Technological Gap Analysis (UNESCOTT)</td>
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<td>Women Support Women (Green Houses) - Women UNESCO chair ]</td>
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<td>Health in All Polices (Ministry of Health)</td>
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IRCC Innovative Science & Technology for Prosperity aims to achieve:

1) High number of Intellectual Property Right (IPR), including original writings, Utility Innovation (UI), Industrial Design (ID), Copyright, Trademark and Patents filed, with commercial viability

2) High number of patents granted in the year

3) High number of new products licensed for commercialization and must have generated income in the year

4) High number of new technology know-how licensed in the year

5) Quality number of independent companies being set-up for the commercialization of IRCC research product or invention specifically with ready IP products or services

6) High amount of income generated from product commercialization / technology know-how licensing in the year
Thank you