

## Curriculum Vitae

**1. Proposed Position** : Natural Resources and Environmental Management

**2. Name** : Mohamed Gamal Ahmed

**3. Date of Birth** : 1949

**4. Education:**

**10. Date From- Date To: Degree Obtained**

1980-1983 : Ph. D Soil Science University College of North Wales, UK

1973-1976 : M.Sc, Soil and water Science, Faculty of Agriculture, University of Alexandria, Egypt

1975-1969 : Sc. (Hon.) Major soil water science, University of Alexandria Faculty of Agriculture, Egypt.

**11. Membership of Professional Associations:**

- Vice President of the Sudanese Society of Soil Science (SSSS).
- Member of the Sudanese Agriculture Council.
- Member of International Soil Science Society (I.S.S.S)
- Member of Africa Association of Remote Sensing and Environment.
- Member of Executive Board of soil and Fertilizer Network (SOFERNE) in Africa

**12. Other Training:**

- Environmental Management, Certificate, Urbino, Italy (1978, one year academic course).
- Human Settlement Planning Certificate, ( Seoul, Republic of south Korea (1988, for one academic year).

**13. Countries of Work Experience:**

Sudan, Kenya, Hungary, Syria, Japan, Senegal, Jordan, Australia, England, Italy

**14 Employment Record:**

Date from- Date To	Employer	Position Held
1997- to Date	University of El neelain, Khartoum	Associate Professor
1993-1997	FAO	Consultant Land Use Planning, FAO Development Project, Sudan
1997-1983	Department of Soil Conservation and land Use, Ministry of Agriculture and Natural Resources, Sudan	- Director of Technical Administration of Soil Conservation and Land Use. - Head of Soil Conservation and Soil Laboratories
1983-1980	Ministry of Agriculture and Natural Resources, Sudan	Ph.D. Survey and Conservation Specialist
1980-1976	Ministry of Agriculture and Natural Resources, Sudan	Soil Survey and Conservation Specialist
1976-1973	Ministry of Agriculture and Natural Resources, Sudan	M.Sc. Student in Alexandria University, Egypt.
1973-1969	Ministry of Agriculture and Natural Resources, Sudan	Assistant Inspector, Department of Soil Survey and Conservation.

## 11. Detailed Tasks Assigned:

In co-ordination and collaboration with other members of the study team, the following are the detailed tasks assigned:

- A summary of the status of the natural resources in the main areas covered by semi-mechanized farming and the conflict over the access to resources caused by the spread of mechanized farming.
- Consultations with leaders of farmers, herders, civil society and federal, state and local governments on the performance of the semi-mechanized farming system and the implications of past and current public policies (national and state) on land allocation, cultivation practices, crop rotations, produce marketing, etc. since the inception of the Semi-Mechanized Farming Corporation in the early 1950s.
- A critical review and analysis of long term trends in area, production and yield of crops, along with an analysis of reasons for the fluctuations in those trends, and to the extent possible an assessment of these trends in the main areas covered by semi-mechanized farming.
- Assess the information available on the extent and depth of ground and surface water resources in the major semi-mechanized farming areas, and the estimated cost of using this water for domestic water supplies and for animal husbandry – making it possible to establish farming settlements and keep livestock within the semi-mechanized farming areas.
- Assess the origins and causes of conflict over land used for semi-mechanized farming in the major areas covered by this study.
- Analyse the options for resolution of conflicts that have arisen over the spread and impact of semi-mechanized farming areas in the areas covered by this study, and recommend the likely best solution to the conflicts.
- Evaluate the economics of different but typical farm sizes and crop rotations, and draw conclusions on family farm sizes that are likely to be variable in economic terms under the variable soil, climatic, economic conditions and credit requirements in the main areas covered by this study with a view of redistributing land to a larger number of farmers than at present and contributing to reducing poverty in Sudan.
- Provide the outlines of a future lease, land use management and institutional policies for the semi-mechanized farming areas covered by this study.
- Literature review and consultations on: (i) the historical rationale of the development and evolution of semi-mechanized farming (ii) the performance and effects of the semi-mechanized farming system; and (iii) the implication of policies on land allocation, cultivation practices, crop rotations, produce marketing, etc since the inception of the semi-mechanized farming in the early 1950s.
- Assessment of the socio-economic and environmental impact of the semi-mechanized farming system on investment, employment, services in the towns and villages found in the semi-mechanized farming areas.
- Participatory surveys to assess: (a) the socio-economic situation of inhabitants i.e. households (food security, employment, livelihoods, etc) typical of the semi-mechanized farming areas; and (b) any conflict that existed or may exist at present over access to land and water caused by the spread of the semi-mechanized farming system.
- Assessment of the status of and any changes to the environment (soils, water, vegetation, etc) in the semi-mechanized farming areas.
- Analysis of land tenure arrangements for semi-mechanized farmers, the labourers that they employ, and the traditional farmers residing in neighbouring areas.

## 12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned:

<b>2003 - 2005</b>	Soil Reclamation of the Hudeiba Project, River Nile State, Arab Sudanese Seed Co. Ltd. (Team Leader).
<b>2000 - 2002</b>	Soil Survey & Land Evaluation of El Matamma (42,000 hectares) and Goid (84,000 hectares) projects, Libyan Investment, (Team Leader).
<b>1997 - 1999</b>	Soil Reclamation Project, South of Khartoum, Butana Dairy Farm Co.,

(Team Leader)

- 1997**                    **With FAO:**  
Member, F AO Mission for Formulation of Agricultural Policy and Strategy in the Sudan.
- 1993 – 1997**            Consultant Land Use Planning, FAO Forest Development Project, Sudan.
- 1995**                    With Arab Organization for Agricultural Development:  
Team leader for training programme for Land use Planning and Water Resources Management.
- 2001**                    Contributed with the National Committee for the preparation of the Quarter Century (2002 – 2027) Strategic Plan for the Natural Resources Sector.
- 1987**                    **With UNDP:**  
The Artificial Catchments to provide Water for Nomads, Eastern Region, Sudan (Team Leader).
- 2002**                    Soil Consultant for the Rehabilitation of Um-Dom and Bagair Projects. Arab Authority for Agricultural Investment and Development.
- 2003**                    Member of the National Committee for the preparation of Terms of Reference (TOR) of the study of South Kordofan Range Management Strategy and Khor Abu Habil Catchment Basin planning and water Development.
- 2006**                    Member of the National Committee for the preparation of National Land use Planning and Team Leader for Current Land Use and Environmental impact sponsored by Sudan Government and ACSAD, Syria.
- 2007**                    Member of Evaluations Committee for the Environmental Impact Assessment report, Merowe Dam Project.
- Team Member of the Technical, Economic and Environmental feasibility study for Soba-East Project, Khartoum State 1998.
  - Team leader of the Technical, Economic and Environmental feasibility study for Atbara Food Security Scheme, River Nile State, 2000.
  - Team leader of the feasibility study of Wadi El Nugu proposed project, River Nile State, 2000.
  - Team leader of the Technical, Economic and Environmental feasibility study of Mukabrab South project, Ministry of Agriculture and Natural Resources, River Nile State, 2001.
  - Detailed Soil Survey Report of EI Rawakieb project, Khartoum Province, 1997. Soil Conservation Department.
  - Semi-detailed Soil Survey Report of EI Emirate Investment Co., Khartoum Province, 1980.
  - Soil Survey land Evaluation Report of EI Ahfad Scheme, Khartoum Province 1983. A study prepared on request by the University of EI Ahfad, Sudan.
  - Soil Survey Report of the proposed Soba Scheme Extension, Khartoum State 1992.
  - Maman, Togan, Shalalob, Kalahot and Tendelia areas, Kassala Province 1973 Soil Conservation Department -Sudan Reconnaissance Soil and natural resources survey report.
  - El – Far & El Berdab areas, Southern Kordofan, 1976. Reconnaissance Soil and Natural Resources Survey Report. Soil Conservation Dept.
  - Semi-detailed Soil Survey & land Evaluation Report of Tangasi Scheme, Northern Region, 1985.
  - Semi-detailed Soil Survey & land Evaluation Report of Wadi Noura Project, Shendi, Northern

Region, 1986.

- Semi-detailed Soil Survey & land Capability Classification of Sagadi Scheme, Shendi, River Nile State, 1997.
- Semi-detailed Soil Survey & land Capability Classification of Mukabrab Southern Scheme, River Nile State 1998.
- Semi-detailed Soil Survey & land Capability Classification of Wad Hamid project, El Matama, River Nile State, 1999.
- Detailed Soil Survey and land Capability Classification of E1 Hudaiba Scheme, Ed- Damar, River Nile State, 2001.

### **13. Publications:**

- Effect of Groundwater on some physical and chemical properties of Rawkeib Soils, Khartoum Province. Tech. Report Soil Conservation ,Land Use and Water Programme Administration, 1979.
- Different forms of Iron Oxides in Gradod Soil Kordofan Province, 1994.
- Mineralogical Studies on parentage of Drift-Derived Soil in Angelesy. British Society of Soil Science, Autumn Conference, U. C. W. Aberystwyth, UK, 1982.
- Indigenous water Harvesting Techniques, Soil Conservation Conference, Khartoum, 1985.
- Potential Application of Integrated Fertilization system in Soil Reclamation, SOFER NET, Dakar, Senegal, 1993.
- Land allocation conflict and proposed means of solution. FAO-Project in GCP/SUD/O47/NET. Forestry Development Project in the Sudan (1995).
- Integrated Land use plan for areas adjoining Rawashda /Wad Kabo Forest in Gadarif State. FAO project GCP/SUD/O47/NET. Forestry Development project in the Sudan, (1996).
- Integrated Land use plan for the Vicinity of Dali/Mazmum Forests. FAO project GCP/SUD/O47/NET. Forestry Development in the Sudan (1996).
- Soils and land use planning in the Sudan. Programme Development Mission, FAO (1997).
- The Role of land use planning in agricultural and environmental management, case study Eastern Sudan. First International Conference on Multiple Objective Decision Support System for Land, Water and Environmental Management: Concept approaches and Applications, USA, Hawaii. (1995).
- Base - Line study for Wadi Halfa & Nubian Lake, 1992.
- Land Tenure conflict and Means of Resolution. Case Study for Southern Kordofan State. ADAB Univ. of Khartoum, Vol.22, Page 15-26 (2004).
- Soil Feasibility Management practiced by the farmers in the River Nile State and the newly reclaimed High Terraces land. Dirasat Afriqyyai, vol.30, PP.23-31 (2003).
- Biodiversity as a tool in sustainable land management, (2005).Juba University Journal (2007), under publication.
- Mangrove Restoration: A potential tool for poverty eradication: A case study Red Sea State (Sudan), Diplomatic Studies Journal (2007), under publication.
- Environmental Impact Assessment for Paper Industry. ADAB Journal University of El Neelain (2005).
- Natural and Human Resources in Africa. African Universities Union Conference, Khartoum, (2006).

#### 15. Seminars and Workshops Attended:

- International Workshop on Multipurpose use of soil survey information for efficient Land management, Nairobi, Kenya(1989).
- International Workshop on transport and desertification in arid land. Presented a paper on: Partical size distribution and Mineralogy of some sand dunes in the Sudan, Khartoum, Sudan (1985).
- ACSAD regional on Reclamation, and Management of Arid Lands Damascus, Syria (1985).
- Arab Agricultural Engineers Conference on Water and Land Management. Presented a paper on: Utilization of groundwater for irrigation in arid lands, Khartoum, Sudan (1986).
- Mechanized Farming Conference. Presented a paper on: Land Evaluation and Land Use Systems, Damascus, Syria (1995).
- 11<sup>th</sup> International Congress of Soil Science, Kyoto, Japan (1990).
- ACSAD Workshop on Establishment of Soil and Terran Database for Sustainable Land Use Systems, Damascus, Syria (1995).
- Remote Sensing and GIS for natural resources and conservation of Environmental balance, Khartoum, Sudan (1996).

#### 16. Teaching Experience:

- Department of Biochemistry and Soil Science University of Khartoum. Where I taught the following course (Part-Time Lecture):
  - Soil Morphology and Classification.
  - Department of Geography, Faculty of Education, University of Khartoum.
    - Agricultural Geography.
    - Aerial Photo interpretation.
- University of El Neelain (Full- Time Lecture):
1. Geomorphology.
  2. Fresh water.
  3. Soils and Plants.
  4. Land use Planning.
  5. Human & Environmental.
  6. Natural Resources Management (Post-Graduate Course).

#### 17. Language:

Language	Speaking	Reading	Writing
Arabic	Good	Good	Good
English	Good	Good	Good

#### 18. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes my self, my qualifications and my experience. I understand that any willful misstatement described herein my lead to may disqualification or dismissal if engaged.

Signature of staff member or authorized representative: \_\_\_\_\_ Date:

Full name authorized representative: \_\_\_\_\_