**Mahmoud Hussein Ali Numan**

**Profession:** Food Security &Livelihoods, Agriculture, Seed Technology, Capacity building and Environment

*(Associate Trainer - REDR)*

**Marital Status:** Married

**Date of birth:** November 21, 1950

**Nationality:** Sudanese

**Languages:**  Arabic (mother language) and fluent in English (Fluent Reading and writing) and basic Turkish

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1. **Key Qualifications**
2. **M. Sc. Environment (1983)**

Institute of Environmental Studies, University of Khartoum.

Thesis title" *Effects of Mechanical Control on Some Ecological Aspects of Aquatic Weeds in Northern Gezira Irrigation Canals'*

1. **B. Sc. (Hon.) Agriculture (1974)**

Faculty of Agriculture, University of Khartoum.

* + ***In-service training***
* *Cereal Seed Production (1976) FAO/SIDA, Kenya*
* *Seed Technology and Improvement (1986) FAO/USDA, Mississippi State University, USA*
* *Soil Analysis and Improvement (1989) JICA, Obihero Industrial Centre, Japan.*
* *Computer Operations and Utilization (1995) College of Business Administration and Computer Studies, University of Gezira at Khartoum, Sudan*
* *Economics of Seed Production (1996) International Centre for Agricultural Research in the Dry Areas, Aleppo, Syria*
* *European Union Training Workshop ‘’Cooperation with the European Union as a donor”, Harare, Zimbabwe, (14-15 June 2012)*

1. ***Practical Experience***

The consultant participated in many

* Evaluation and baseline surveys of various projects in Sudan (IFAD, WHH, GRC/SRCS, IOM, COOPI..etc)
* Training skills and Manuals developments(associate trainer with REDR)
* Needs Assessments of households and Crop and Food Supply Assessment Missions conducted by WFP, UNICEF and FAO
* Extensive experience on programme management with FAO
* Developmental of agricultural national projects (Rahad Agricultural Scheme)
* Development of seed production programmes and establishment of seed companies
* Development of seed specifications
* Membership of many professional societies
* Member of many technical committees in Sudan

***2.1 Assessments and Consultancies***

The consultant conducted the following assessments:

* Development of manual for training of farmers on PHL and Associate Training for RedR and WHH on ToT training on Post Harvest Losses conducted for farmers and WHH partners in Kassala **25th Sept- 10th Oct 2019.**
* Baseline survey for GRC/SRC in Girba for project " Livelihood and Food Security Project **March 2019**
* Short term Consultancy with WHH/Kassala to support the Project Management on conducting workshops and distribution of WFP material for PHL beneficiaries **6-24 Jan 2019**
* Short term Consultancy with WHH/Kassala to support the Project Management and the WFP funded PHL field team and baseline survey **21 Nov - 18 Dec 2018**
* Associate Training for RedR and WHH on ToT training on Post Harvest Losses conducted for staff from SMOA and WHH partners in Kassala **Sept-Oct 2018**
* Baseline Survey for GRC/SRCS Project 'Ensuring Food and Nutrition Security and Peaceful Co-existence of Former refugees and Host Communities in Gedaref State, Eastern Sudan **April-May 2018**
* Associate Training for RedR, WHH and WFP on Post Harvest Losses training conducted for farmers in Kassala state **Nov-Dec 2017**
* Final Evaluation of Integrated SRCS/GRC "Food Security Intervention, El Goriesha locality, El Gedaref State, **November 2017**
* Market Assessment for Vocational Training and Life Skills Training in East Sudan (SRC and UNHCR) **Nov -** **Dec 2016** (Ali A/Karim and Mahmoud Numan)
* Baseline Survey for (COOPI) project "Support to the Nomads and Sedentary Food Unsecured Communities in Um Baru Locality, North Darfur", **Dec 2015 - Jan 2016** (Mahmoud Numan and Ali A/Karim)
* Baseline Survey for Welthungerhilfe (GAA) project " Food Security project No. SDN 1117 –– EU funded Red Sea State Project - (Fisheries and agriculture for Agig locality) from **October – November 2014**.
* Final Evaluation of the Food Security project No. SDN 1079 – Welthungerhilfe (GAA) – EU funded Red Sea State Project. **August –September 2014**
* Needs Assessment for livelihood component for IOM under Displacement Tracking and Monitoring System and Rapid Response for Population Movements in South and West Kordofan and Blue Nile states Project, **June – July 2014**
* Final Evaluation for WHH Project "Agriculture and livelihood Project in Sinkat and Agig localities, Red Sea state /) **May -June 2014**
* Implementation Frame and Project Proposal for WHH for SSAPP-project in Kassala/ for submission to EU, **Dec 2013 – January 2014**
* Project Performance Assessment for Gash Sustainable Livelihood Regeneration Project, Kassala State carried with international consultants from IFAD **November – December 2013**
* Implementation, monitoring and evaluation of peace building initiatives to support stability, reconciliation and peaceful co-existence under the Joint Conflict Reduction Program (JCRP) in Damazine, Blue Nile and Kadugli, South Kordofan, IOM **October –November 2013**
* Needs Assessment on Food Security and Livelihoods in Habilla Locality (Habilla, Gobie & Tawanj), West Darfur for Help Age International (**August 2013**)
* Evaluation of Recovery of Livelihood and Sustainable Natural Resource Management in Kassala State for enhancing income of vulnerable groups including small/marginal farmers and pastoralists projects conducted under agreement between IOM and PA and WHH in Kassala (**June 2013**)
* Mohamed, A.A., Bedawi, A. and Ali, M.H. (2000), “Feasibility Study for installation of grain Cleaner at El Obeid Grain Market”. Study prepared for El Obeid Grain Market Authority
* Ali, M.H., Taha, S.M. and Sir El Khatim, A. “Updating of Feasibility Study of Setting up Farmers owned Seed Company”. Study prepared for White Nile Agricultural Service Project/IFAD. **(1999)**
* Mohamed, A.A., Ali, M.H. and Taha, S.M. “Feasibility Study of Setting up Farmers owned Seed Company”. Study prepared for White Nile Agricultural Service Project/ IFAD. **(1998)**
* Team Leader forFeasibility study for the commercial production of seeds / Seed Propagation Unit/ Rahad Agric. Corp. (Study carried out jointly with Dr. Ayoub Zeyada, NSA) ***1995***

The consultant participated in the following assessments:

* Participated in various Annual Needs assessments conducted by WFP, UNICEF and FAO in South Kordofan, Blue Nile and South Sudan and Darfur from 2001 -2008
* Participated in Crop and Food Supply Assessment (CFSAM) conducted by FAO , WFP , UNICEF, HAC and MoA from 2004 - 2008

***2.2 Programme Management Experience***

* Extensive experience on need assessment of the four states targeted by SPCRP (Red Sea, River Nile, Blue Nile and South Kordofan states) in area of physical and institutional capacity building, rural development (FFS, Small Business and Marketing and CARDA)
* Physical capacity building of SMOA, coordination with government, preparation of various reports (annual, semi-annual and special reports for steering committee)
* Recruitment of consultants in various professions and clearing their reports
* Coordination with visiting consultants, missions from EU and mission for programme evaluation, ROM and verification
* Familiar with administration and finance of big projects (above 18m Euro), requirements of EU and sustainability and exit strategies
* Experience in working with staff from different nationalities and attitudes
* Develop plans for improving food security in war affected areas in south Sudan, Nuba mountains, Blue Nile and Darfur
* Introduction of pasture seeds into degraded ranges land in North Darfur
* Introduction of hunger gap crops (sweet potato) and revival of Greco Nuba Hoe in South Kordofan
* Introduction of fast growing trees to reduce the pressure on forests in South Sudan.
* Advocate for improved seeds and encouraging of seed production by communities in Darfur and south Sudan and establishment of seed testing laboratories in Juba and Nyala

***2.2.1. Programme Manager******/FSPS*** *(***Aug 2015 -November 2016)**

*Food Security Policy and strategy Capacity Building Programme implemented in RSS, Kassala, Gedarif and BN states)***.** TheProgramme was funded by EU and implemented by FAOfor development of food security units in the states and develop policy and strategy in the above states. The main duties included the following:

* Providing technical assistance and support to the state Technical Support Unit (TSU), State FSTS and State line ministries (where appropriate) and to non-state actors, localities and other public institutions through the state TSU;
* Support the overall management (finance, procurement, logistics etc) monitoring, review and approval of Programme activities at federal level and in the states; and
* Support in coordination and ensuring synergies among Programme activities and other institutions.
* Support the FAO PSU team in facilitation of policy dialogue and other decision making processes.

***2.2.2. Programme Manager /SPCRP( 4 years, 2008 -2012)****,*

*Sudan Productive Capacity Building Recovery Programme (SPCRP)/FAO-Khartoum with travel to South Kordofan, Blue Nile, Red Sea and River Nile states).* The programme was funded by EU*.* The core goal is to strengthen capacities in rural communities and government line ministries in the states of South Kordofan, Blue Nile, River Nile, Red Sea and the Abyei Administrative Area Establishment of SPCRP programme at headquarter level (PCU) and state level (TSU). The main duties included:

* + - Coordination with Government authorities at both Federal and state level
    - Capacity building of the staff of the state ministries in PCM, M&E, food processing and agriculture
    - Provision of means of transportation and rehabilitation of SMOA offices in the target states in order to provide conducive environment and building the capacity of the staff of SMOA in technical aspects, M&E and IT aspects in addition to lead the change in reaching the beneficiaries, reporting and preparation of proposals.
    - In the area of development of the rural agricultural services, SPCRP intervened with three sub-component namely Farmer Field schools (FFS), Community Animal Resource Development Agent (CARDA) and Rural Marketing and Small Business (RM&SB) targeting beneficiaries in the community and link them with the service providers in the State Ministries of Agriculture and Animal Resources
    - Familiar with Administration (recruitment of staff and consultants) , Finance (budget expenditure, FBAs, and budget revision) and procurement and contracting procedures according to FAO rules and regulation
    - Familiar with preparation of progress reports, semi and annual reports according to EU forma and response to Mid-term and Final Evaluation Review Reports and reports to Project Steering Committee

***2.2.3. Asst. Emergency Coordinator for South Sudan/Darfur (8 years)***

*Emergency Coordination Unit/FAO (Khartoum with extensive travel to south Sudan, SK, Abyei, BN and Darfur).*

* + - * The Focus was on enhancing food security of HHs in south Sudan, Abyei, Nuba Mountains, Blue Nile and Darfur.
      * During that period, FAO succeeded in introduction of improved and certified varieties of crops and vegetables in addition to introduction of sweet potato and cassava and rehabilitation of deteriorated pastures in north Darfur using broadcasting pasture seeds from Kassala state. Reintroduction of Nuba Greco hoe, Savannah plough and training of blacksmiths in production of hand tools
      * Coordination with State Ministries of Agriculture and NGOs in trainings and surveys.
      * Stipulation of seed specification for improved seeds and local seeds for local and international procurement.
      * Recommendation of improved seed varieties suitable for rain-fed areas in South Kordofan and South Sudan as well as identification of local popular seed cultivars for further multiplication/ propagation
      * Establishment and equipping of the Seed Testing Laboratory in Juba and Nyala to enhance seed production by NGOs and communities

***2.2.4. Management of Agricultural Developmental Schemes / Rahad Agricultural Corporation (6 years)***

*2.2.4.1. Field Inspector, Block Inspector and Deputy Section Manager*

* + - Experience in establishment and development of big farms in irrigated sector from land clearing of bushes and trees for crop production, construction of field outlet pipes and irrigation structures.
    - Follow up construction of buildings and offices and equipping with the required equipment to create favourable environment for work
    - Land allotment to farmers and land preparation for cultivation of cotton, sorghum and groundnut
    - Extension message to farmers on all steps of crop development and irrigation and application of fertilizers.
    - Supervision and follow up of cotton production from planting to harvesting and ginning.
    - Follow up the financial advances for farmers for establishment of crops.
    - Coordination with government and partners working in the same sector

*2.2.4.1. Agricultural Manager Sudan Oil Seed Company (Abu Naama) 1985*

* + - * Land development and rehabilitation of irrigation system for cultivation of groundnut.
      * Supervision of staff involved in the production of groundnut from land preparation, planting and harvesting of groundnut for export

***2.3. Seed Development Programme (15 years)***

***2.3.1. Seed Technology Consultant / UNICEF (4 years)****,*

*HHFS programme/ UNICEF Khartoum with extensive travel to Nuba Mountains and south Sudan).*

* The main focus was on introduction of improved seeds varieties suitable for Nuba Mountains and south Sudan and training of farmers and staff of SMOA on seed production techniques.
* Reintroduction of rice in Wau and production of local sorghum varieties in Malakal and Abyei and restocking of cassava in Juba area
* Preparing technical information manuals on crops selected for households in south Sudan and south Kordofan
* Training of small households, monitors, SMOA staff and beneficiaries in seed production, seed testing and seed banking at Juba, Malakal, Wau, Dilling and Kadugli
* Established of seed farms for multiplication of popular seed cultivars in south Sudan and Kordofan in collaboration with SMOAs
* Coordination of food security programmes with NGOs and UN

***2.3.2. Assistance Coordinator/ Sudan Seed Project funded by ADF (3 years)****,*

*National Seed Administration / Ministry of Agriculture and Natural Resources,(Khartoum).*

* Strengthening the capacity of NSA by importing farm machinery for production of seeds and laboratory equipment for seed testing. Training of NSA staff inside and outside Sudan on seed technology
* Assist in preparation of tendering documents for international procurement of laboratory equipments and farm machinery for NSA
* Assist in conducting feasibility studies on establishment of seed companies and seed farms

***2.3.3. Head of Seed Production station, Sennar West (6 years)***

*Seed Administration / Ministry of Agriculture and Natural Resources, (Sennar state).*

* Production of open pollinated and hybrid sorghum, wheat, groundnuts and vegetableseeds
* Supervision of storage and processing facilities of the station
* Training in techniques of seed production of various crops for agriculturists

***2.3.4. Seed Production Officer (2 years)***

*National Seed Administration at Hudieba (Northern Province), Tozi (Blue Nile Province) and Sennar West (Sennar Province)./ Ministry of Agriculture and Natural Resources*

* + - * + Supervision of Production and certification of seeds of sorghum, sesame under rain-fed; groundnut, Kenaf, wheat and vegetables under irrigation
        + Land development in both rain-fed areas and irrigated sectors

***2.4. Environmental issues***

* Control of aquatic plants in irrigated canals of Northern Gezira Scheme 1983 (M.Sc. Thesis, Institute of Environmental Studies/ U of K)
* Improvement of pastures in North Darfur
* Water harvesting in RSS for strengthening livelihoods of inhabitants of Agig locality, RSS
* Choice of crops to suit harsh environment in Agig locality, Kassala and North Darfur states
* Introduction of animal drought ploughs to increase area cultivated to improve food security in Nuba Mountains and Darfur
* Evaluation of projects based on introduction of techniques to enhance vegetable production and to support livelihoods in Kassala state

1. **Seminars and workshops attended**

* Climate change and food security, organized by FSPS/FAO December 2015
* Seed Policy Workshop organized by Seed Council and sponsored by IFAD Jan 2014
* Tailored PEMS training for TCE staff organized by FAO, Nairobi, Kenya (February 2011)
* Rules and Regulations for seed importation and production, Sudanese Metrology and Standards, Khartoum 2012
* Seed workshop on seed varieties organized by FAO Khartoum, October 2001
* Finance and Management of Small - scale Seed Enterprise Workshop organized by Seed Unit, ICARDA, Addis Ababa, Ethiopia 26~30 October 1998
* Seed Industry Workshop organized by Federal Ministry of Agriculture (1995)

1. **Training experience**

*Participated in the following trainers as facilitator*

* Associate Trainer for TOT trainers on PHL conducted in Kassala, since 2017,
* Training on Producers Associations Act 2011 for Extension staff in Gedarif State, Ibhar Training Center June 2016
* Seed Technology Training organized by FAO and Nyala ARS, Nyala 2007
* Seed Economics Training organized by Seed Admin./ MoAF in collaboration with Seed Unit /ICARDA, Sennar 1999
* Seed Testing Training organized by El Obeid ARS, El Obeid and sponsored by NHFS/ UNICEF, 1997 &1999
* Seed Technology Training organized by FAO and NSA, Sennar 1985

1. **Employment record**

* 2016 – up to date Free Lance Consultant
* August 2015 – Oct. 2016 Programme Manager FAO(FSPSP, Khartoum)
* Jan. 2013 - Free Lance Consultant
* September 2008 – Dec. 2012 Programme Manager FAO(SPCRP, Khartoum)
* Jan. 2001 - September 2008: Senior Emergency Coordinator Assistant ECU/ FAO Khartoum
* Feb. 1997 – Dec. 2000: National Household &Food Security Consultant

UNICEF/ Khartoum

* 1995 – 1996: Intermittent Seed Technology consultant, UNICEF/Khartoum
* 1993 – 1997: NSA (MOA): Asst. Director General/ NSA and Deputy Coordinator/ Sudan Seed Production Project
* 1992 – 1993: Private Seed Grower (Leave without pay)
* 1991 – 1992 : Saraf Transport Company (Leave without pay):Manager, Sennar - Kosti Branch
* 1989 – 1991: National Seed Administration (MOA): Asst General Manager, Khartoum Office
* 1985 – 1989: National Seed Administration (MOA): Head, Sennar West Seed Station
* 1984 – 1985: Plant Propagation and Improvement Department (MOA), Agricultural Manager, /Abu Naama
* 1977 – 1983: Rahad Agric Corporation, Field Inspector, Block Inspector and Asst. Group Inspector
* 1981 – 1983: Study Leave for M Sc: Institute of Environmental Studies, University of Khartoum. Thesis title “Effect of Mechanical Control on some Ecological aspects of Aquatic weeds in Northern Gezira Irrigation Canals”
* 1974 – 1977: Plant Propagation and Improvement Department (MOA), Plant Propagation Officer Tozi and Sennar West Seed Multiplication Stations.

**6. Membership of Technical committees**

1. Member of the Technical Committee for the Drafting of Seed Regulations for Seed Law of 1991, (1994)
2. Member of Follow-up Committee for the Implementation of Seed Multiplication Conference Recommendations (1995)
3. Member of the Technical Committee for the Formulation of States’ Seed Councils, (1995)
4. Secretary of Seed Council, (1995 - June 1997)
5. Member of the Sudanese Technical Committee for Potato, (1995 - June 1997)
6. Member of Wheat and Bakery Committee of the Sudanese Metrology and Standards Corporation, (1996 - June 1997)
7. Member of the Technical and Steering Committee of the Integrated Services for Vegetable and Fruit Farmers /GTZ, (1995 -June 1997)
8. Member of the National Committee for Wheat Self-reliance, (1994 -1996)
9. Member of the Higher Committee for the Agricultural Inputs, (1996 - 1997)
10. Member of the Technical Committee for Drafting of Seed by-laws for Seed Law of 2010, (2012)

**7. Assignments**

***ISVFF / GTZ*:** *Technical consultant 1995, 1996*

* Stipulated specifications for vegetable seeds procurement
* Facilitated vegetable seed production training for vegetable production farmers and monitors

***SC/USA:*** *Seed Procurement Consultant March-May 1996*

* Recommended crops and vegetable seeds varieties suitable for small holders in south Kordofan
* Recommended seed companies, merchants and governmental units involved in seed production and marketing for participation in tenders.
* Evaluation of bids, transport and delivery of seed to Dilling and Um Rawaba
* Conducted training on seed production for farmers and monitors from NGOs and designing a crop husbandry manual for south Kordofan

**8. Published Papers**

1. Ali, M.H. and Yousif, O.A. (1995), “Seed Production in the Sudan with Emphasis on Privatization and Liberalization”. Privatization of Seed Industry Conference, organized by WANA Seed Network, Tunis, Tunisia
2. Ali, M.H (1998), “Small-scale Seed Production in Central States of the Sudan**:** Challenges and Evaluation, A paper presented in “*Finance and Management of Small- scale Seed Enterprise Workshop*” organized by Seed Unit, ICARDA, Addis Ababa, Ethiopia 26~30 October 1998

**9.** **Unpublished Papers**

* Aziz, A.A. and Ali, M.H. (1986), “Groundnut Seed Production in Sudan”: Study for the National Seed Administration, Ministry of Agriculture and Natural Resources, Khartoum, Sudan. (Arabic)
* Tagelseed, M and Nouman, M.H.A. (1987), “On Aquatic Weeds Control in Gezira Irrigation Canals”. International Symposium on the Nile Basin, organized by Institute of African Research and Studies, Cairo, Egypt.(Arabic)
* Ali, M.H. and Aziz, A.A. (1988), “ Noxious Weed Seeds of the Sudan”: Study for the National Seed Administration, Ministry of Agriculture and Natural Resources, Khartoum, Sudan
  + Mohamed, A.A. and Ali, M.H. (1996), “Seed Security Assessment for Disaster-Prone Areas in West Asia and North Africa (WANA) Region / Sudan”. Study prepared for ICARDA
  + Zaroug, M.G, Mohamed, A.A and Ali, M.H. (1997), “Forage and Pasture Seed Production in the Sudan: An Overview Paper Presented at the “Forage and Pasture Seed Seminar” organized by ICARDA and ILRI, Addis Ababa, Ethiopia. 27-31 October 1997
* Nouman, M.H.A. (2014): ‘’Importance of seeds in Agricultural Development” presented at the Seed Policy Workshop sponsored by IFAD, Khartoum (Jan 2014)

**10. Membership of Professional Societies**

* Member of the Sudanese Agricultural Engineers Union
* Member of the Sudanese Agricultural Council
* Member of the Sudanese Environment Conservation Society
* Member of the Sudanese Horticulture Society
* Member of Sudanese Society for Seed Technology

**11. Referees**

**Mr. Charles Agobia:**

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