

Curriculum Vitae

YOUNIS ABDALLA GISMALLA

Associate Research Professor, Consultant Engineer

ADDRESS:-

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QUALIFICATIONS:-

1. Ph.D. "Assessment of Sediment Management Options for Sennar Dam Reservoir". The Water Management & Irrigation Institute-University of Gezira, June 2016.
2. Diploma of the "Advanced Studies in Hydrogeology and Engineering Geology of Tropical and Subtropical Regions", University of Tubingen, Germany, September 1992.
3. M.Sc. Water Resources Engineering, University of Dar Es Salaam-Tanzania, December 1990.
4. B.Sc. (Honours), Civil Engineering, University of Khartoum-Sudan, October 1983.

MEMBERSHIPS: -

Professional:

- Fellow, Sudan Engineering Society.
- Consultant Engineer, Sudan Engineering Council.

International:

- Member, International Nile Basin Association (INBA).

National:

- Member of the Sudan National Committee on Irrigation & Drainage (SNCID).
- Member of the National Environment Protection Society – Wad Medani Branch.
- Member of the Cancer Patients' Friends Association (RAMA).

INTERNATIONAL/REGIONAL TECHNICAL COMMITTEES:-

- Co-chair, Nile Basin Development Forum Technical Committee; June 2008
- National Coordinator of the Eastern Nile Planning Model (NC-ENPM);

- National Expert in the Nile Decision Support Tool (NE-Nile DST).
- Member of the National Working Group on the Eastern Nile Irrigation and Drainage Study (MNWG - ENIDS);
- Member of the National Working Group on the Nile Decision Support System Project (MNWG - Nile DSS);
- Member of the National Nile Decision Support System (Nile DSS) Network;
- Member of the National Working Group on the Eastern Nile Watershed Management Programme (MNWG - ENWSMP);
- Member of the National committee for preparing the work plan for FRIEND/NILE Project in Sediment Transport and Watershed Management.
- Member of the National committee for preparing Strategy and Action Framework for the NILE BASIN CAPACITY BUILDING NETWORK (NBCBN) Sudan Node.

MEMBERSHIP OF NATIONAL TECHNICAL COMMITTEES:-

- The modelling team for upgrading FEWS models 2010.
- The technical committee for study of the impacts of Abu Habil and Bagara Floods on Northern Kordofan State, August 2007.
- The technical committee for MOIWR reservoirs' bathymetric survey, since 2005,
- The Technical Committee for Studies and Design of Small Dams in Greater Kordofan States, since 2005.
- The technical committee for the Gash River training, August 2003.
- The technical committee for Remodelling of Managil Main canal to maintain a Stable Section, March 2002.
- Technical team for the Annual Lake Nubia Scientific Mission, 2001, 2006, 2007, 2008, 2009, 2012.
- The technical committee for assisting the Gash River Training staff during 1999 flood.
- The National Committee for Water Management in Gezira Scheme, since 1999.

PREPARATION OF RESEARCH PROPOSALS & WORK PLANS :-

- Concept Note for the morphological study of the Blue Nile and White Nile confluence at Khartoum.
- A Concept Note on the Improvement of the Sediment Monitoring Program
- Proposal for: Water Balance Study and Validation of Reservoir Releases for Merowe Dam, November 2014.
- Proposal for the Bathymetric Survey of Khashm El Girba Reservoir 2008.
- Proposal for research on Settling Basins in Gezira Minor Canals, 2004.
- Proposal for reconstruction of Control Network & Hydrographic Survey for Merowe Reservoir, July 2002
- A Proposal for Sediment Monitoring in Rahad, January 2002.
- مقترح ميزانية الدراسات لتنقيس النيل و الوقاية من الفيضان في المناطق المتأثرة بالهدام، سبتمبر 2001

- Proposal for the bathymetric Survey for Sennar Reservoir, April 1999.
- The sediment monitoring program 1999,
- Contributed in preparing the work plan for FRIEND/NILE Project in Sediment Transport and Watershed Management.
- Contributed in preparing the Strategy and Action Framework for the NILE BASIN CAPACITY BUILDING NETWORK (NBCBN) Sudan Node.

TEAM LEADING AND PLANNING:-

- Project Leader, the Satellite based ICT for improved crop production in the Gezira irrigation scheme Project
- Project Leader, the Smart ICT project for the Gash-Sudan since 2011
- Head, Hydraulics and Sedimentation Research Unit since 1999.
- Team leader for the Sediment Monitoring Program for 15 years (1998-2012).
- Consultant of the MOI Reservoirs Bathymetric Survey Unit, since 2005.
- Team leader for the Technical Committee for Studies and Design of Small Dams in Greater Kordofan States, since 2005.
- Team Leader of the Annual Lake Nubia Scientific Mission, 2001, 2006, 2007, 2008, 2009, 2012.
- Member of the National Committee for Water Management in Gezira Scheme.

CONSULTANCY STUDIES:

- Key Concepts of IWRM in Baro-Akobo-Sobat (BAS) sub-basin, for ENTRO, May 2011.
- Development of Angid Island for agricultural production, Ministry of Agriculture, 2010.
- Flood Embankment Design, Operation and Maintenance Manual, for ENTRO, 2010.
- Investigation of Abgur Group Pre-selected Pumping Site, Sept. 2009
- Investigation of Morphological changes at Bait Al Mal puming site, June 2009.
- Investigation of a Pump Site for North Omdurman Fodder Production Scheme, August 2006.
- Investigation of a Pump Site for El Mellaha Group – The White Nile Schemes, July 2006.
- Investigation of a Pump Site for Hilalia Agricultural Scheme, April 2006.
- Water Distribution in El Guneid Pumping Station No. 2”, August 2002.
- Bathymetric Survey at Merowe Proposed Dam Site, July 2002.
- Kemeir Pumping Station - Investigation of the proposed Site, River Nile State, November 2001.
- Design of the Bridge Cum Reservoir across Dinder River at Malolaha, May 1999.

- Investigation of a suitable site for the pumping stations of East Barbar Food Security Irrigation Project"; July 1998
- Morphology of the River Nile at Dabak, August 1997
- The New Extension of Canal No. 4 of Kennana Sugar Project" July 1997
- Calibration of Kennana Pumping Station No. 6" Dec. 1996
- Calibration of Kennana Pumping Station No. 5", Sep. 1996
- Study on: River Atbara behaviour during flood at the Petroleum Pipeline Crossing, Dec. 1994

SUPERVISED MSC STUDENTS:-

1. Hafiz Ahmed Mohamed; Water Management and Irrigation Institute, University of Gezira; February 2008.
2. Haroun El Bushra Izairig. Water Management and Irrigation Institute, University of Gezira, February 2008.
3. Adam Ibrahim Mohamed. Water Management and Irrigation Institute, University of Gezira 2008.
4. Al Tayeb Adam El Safi. Water Management and Irrigation Institute, University of Gezira 2008.
5. Limya Mahgoub Mohamed, Water Management and Irrigation Institute, University of Gezira, November 2005.
6. External Examiner for Mohamed Elrayah Mohamed ElTaib. Water Management and Irrigation Institute, University of Gezira. April 2010.
7. External Examiner for Ammar Abdalla Badawi Alameen. Water Management and Irrigation Institute, University of Gezira. April 2010.
8. External Examiner for ??

ADMINISTRATIVE AND ORGANIZATIONAL SKILLS:-

- Coordination of the projects of the Hydraulics and Sedimentation Research Unit.
- Administrational activities, such as annual, progress and strategy reports, etc.
- Organization of staff (technicians, labourers, drivers, laboratory, studio, field data collection teams ... etc.)
- Organization of technical teams, working groups, committees... etc.
- Participation in annual budget preparation and planning;

TEACHING & HRD:-

- Upgrading the technical standards of engineers and supporting staff in MOI through conduction of training courses and on-the job training.
 - Training courses for engineers, technicians, clerks and accountants in basics of computers, operating systems and Microsoft Office;
 - Training courses for HRS technicians in land surveying, discharge measurements;

- Training workshop of the sub-division engineers in crop water requirements and indenting;
- Training of field engineers in water management;
- Facilitator of the workshop on the use of Nile DST in water resources planning and management (FAO- Contract GCP/INT/945/ITA);
- Design of courses for the different levels, local, regional and international.
 - Training workshop in the use Nile DST in water resources planning and management,
 - Syllabus for the diploma degree in Irrigation and Drainage at El Maali Technical College – Wad Medani.
 - Training course in river morphology.
 - Training courses for HRS technicians in land surveying, discharge measurements;
 - Training courses in water management for field engineers;
 - Training courses in computer for different target groups and different levels;
- Par-time lecturing in the University of Gezira:
 - Par-time lecturing in the Faculty of Science & Technology,
 - Par-time lecturing in the Faculty of Agriculture; and
 - Par-time lecturing in the School of Mathematics and Computer Sciences.
- Supervision of M.Sc. students of the Water Management and Irrigation Institute- University of Gezira.
- Dissemination & facilitation of data & information transfer from HRS to:
 - University undergraduate, M.Sc. and Ph.D. students;
 - Researchers and government bodies and officials;
 - National & international companies working within MOI and NBI e.g. SWECO, TECSULT,.... etc..
- Edition of the bi-weekly Sediment Monitoring News Bulletin. First Issue of the Bulletin was issued in August 2000 (several copies are available).

NATIONALIZING TECHNOLOGY:-

- Project leader for "Satellite based ICT for improved crop production in the Gezira irrigation scheme in Sudan" project.
- Project leader of the Smart ICT for the use of satellite data and information communication technology in agricultural water management, 2011.
- Training in advanced technology equipment, e.g. integrated bathymetric survey equipment, Sub-bottom profiler, .. etc.
- Created the sediment database in HRS (1998-2012).
- I introduced the use of GPS in land & bathymetric surveying in HRS in 2002.
- Use of computers in drawing contour maps and area & volumes calculations, introduced "Surfer" software for use in HRS in 1992.

CONTRIBUTION TO SEMINARS & WORKSHOPS:

- The 2nd International Forum on Water harvesting Social, Economic and Environmental Impacts.” 26-27 September 2016. Khartoum, Sudan
- A presentation for the first HRC Scientific Seminar Khartoum 17 Dec.2015.
- A presentation for the Global Forum for Innovations in Agriculture GFIA-Africa. 1-2 December 2015, Durban – South Africa.
- A presentation for the final workshop for the "Satellite based ICT for improved crop production in the Gezira irrigation scheme in Sudan", 20th May 2015.
- A presentation for kick-off meeting for "Satellite based ICT for improved crop production in the Gezira irrigation scheme in Sudan", 18th November 2014.
- A presentation in the Smart ICT Conference: Shaping Ideas for a Smarter Future March 11-12, 2014, Wageningen, The Netherlands
- A presentation in the 2nd Capacity Building Workshop on the Smart ICT project at HRS, 28-29 August 2013.
- Contributed into TWO papers in: The International Conference on: New Nile Perspectives – Scientific Advances in the Eastern Nile Basin. Khartoum 6 – 8 May 2013.
- A presentation in the Capacity Building Workshop on the Smart ICT project at HRS, 14-15 January 2013.
- A presentation in the stakeholder meeting for the Smart ICT project at Kassala 26-April 2012.
- A presentation in the stakeholder meeting for the Smart ICT project at Khartoum 25-April 2012.
- A presentation in the Inception Meeting for the Smart ICT project in Wageningen 18-19 August 2011.
- A seminar presentation on “Problems of Sedimentation in Sudan” held at HRS Hall on 3 Nov. 2008.
- A seminar presentation on “Benefits and Impacts of Dams" held at HRS Hall on June 2007
- A seminar presentation on “Introduction to GPS”, held at HRS Hall on 2005.
- Contributed ONE paper in: المؤتمر الهندسي العربي الرابع و العشرون تحت عنوان التعليم الهندسي في الوطن العربي. عمان 14-16 مايو 2007م.
- Contributed TWO papers in: The International Sediment Initiative Conference – UNESCO Chair in Water Resources – Khartoum 27- 30 November 2006.
- Facilitator, Eastern Nile Watershed Management Project (ENWMP) Launch Workshop January 5-7, 2010 - Khartoum
- Contributed ONE paper in: the First Symposium on Dams Management & Operation – Riyadh – 19-20 November 2005.
- Contributed with others in writing a paper in: المنتدى الشهري لمجلس الوزراء – يونيو 2005م.

- Co-author in a paper in: Regional Workshop on Capacity Building in River Morphology, 29 -3 October 2002, Khartoum Sudan.
- Co-author in a paper in: ورشة عمل مستقبل البحث العلمى فى مجال المياه : مركز الشهيد الزبير للمؤتمرات -الخرطوم 9سبتمبر 2002
- A presentation in: ورشة دور البحث العلمى فى الصيانة لعمليات الري : محطة البحوث . الهايدروليكية 18 أبريل 2002م
- Contributed ONE paper in: ورشة تعزيز البحوث المشتركة فى مجال كفاءة استخدام الموارد المائية فى الدول العربية- المنامة 30نوفمبر -2 ديسمبر 1999م.
- Contributed ONE paper in: Nile 2002 Conference, Kigali, Rwanda 1998.
- Contributed ONE paper in: International Symposium on: Hydrology in a changing Environment. 6-10 July 1998. Exeter University, UK.
- A seminar presentation at: The International course on irrigation and Drainage, November 1997, Kota Bahro, Malaysia.

COMPUTER SKILLS:-

- Started using computers in research and daily work in 1984.
- Knowledge in computer was built through learning and continuous use of different computer generations and software developments which includes, but not limited to, the following:

☒ *Modelling & GIS:*

- HEC-RAS, HEC-GEORAS
- HEC-HMS, HEC-GeoHMS
- HEC-Resim
- MIKE BASIN
- Delft3d
- SWAT,
- MODFLOW
- The Nile Decision Support Tool (Nile DST)
- The Nile Decision Support System - Nile DSS
- RIBASIM model
- Stream Flow Modelling (SFM)
- Hydrological Analysis and Modelling (FREQ)
- Hydraulic Packages (PROFILE, ..)
- Groundwater Modelling (AQTESOLV, MODFLOW, ...)
- Geographic Information Systems GIS; ArcGIS ;
- Digital Terrain Models: GIS and Surfer (Golden Software);
- Crop Water Requirement (CROPWAT)
- Engineering software AutoCAD, STAAD PRO;

☒ *Operating systems:* DOS and Windows

☒ *Programming languages:* FORTRAN, BASIC and C++.

☒ *Programming Experiences:* Developed many programs in BASIC and FORTRAN languages for different jobs. Developed one computer package for *Processing of Special Data for Water Resources Planning;*

- ☒ **Spreadsheets:** Lotus, QPro, Works, Symphony and EXCEL;
- ☒ **Word processing:** WordPerfect, Wordstar and Microsoft Word;
- ☒ **Presentations:** Microsoft Power Point;
- ☒ **Graphics:** Grapher, Curfit, Freelance, Harvard Graphics; Adobe, Paint, Windows Picture and Fax Viewer,
- ☒ **Utility Software:** Pctools, Xtree, Norton Toolkit, Scan and other antivirus programs;
- ☒ **Communication:** Using LAN and Internet.

LANGUAGES:-

Arabic (mother tongue);
 English (Fluent);
 Swahili (Spoken)
 German (Basics).

PUBLICATIONS

A. PAPERS PUBLISHED IN JOURNALS:-

1. **Younis A. Gismalla** & Michael Bruen "Use of a GIS in reconnaissance studies for small-scale hydropower development in a developing country: A case study from Tanzania".
IAHS Publication no.235, April 1996
2. **Younis A. Gismalla**" Hydrological Data Needs & Outcomes of the Nile DSS Planning Tools"
IAHS Publication no. 327, 2008.
3. **Younis A. Gismalla**, Eiman M. Fadul "Design and Remodeling of Stable Canals in Sudan".
Sudan Journal of Agricultural Research (2011),17,23-138. ISBN 1561-770X.
4. **Younis A. Gismalla**, "Sedimentation Problems in the Blue Nile Reservoirs and Gezira scheme".
Gezira Journal of Engineering and Applied Sciences Vol. 4 (2) 2009
University of Gezira. ISBN 1858-5698 ردمك.
5. **Younis A. Gismalla**, "The Sediment Monitoring Programme for Gezira Scheme".
Journal of Science and Technology 11(2) March 2010
Sudan University of Science & Technology. ISSN 1605-427x
6. Ageel I. Bushara, **Younis A. Gismalla**, .et al "Investigating the working hydraulic conditions of Gezira two Main Canals in Sudan". Accepted in:

7. **Younis A. Gismalla** "Sediment Balance in the Blue Nile in Sudan"
Gezira Journal of Engineering and Applied Sciences Vol. 9 (2), 2014
University of Gezira. ISBN 1858-5698 ردمك.
8. Amira A.A. Mekawi, Yasir M. Eltom and **Younis A. Gismalla** "Calibration of turbidimeter for measuring suspended sediment concentrations in the Blue Nile and Atbara River systems in Sudan" Published in Sudan Journal of Agricultural Research (2015),25,111-122. ISBN 1561-770X
9. Hiba A. Mousa, Abu Obeida B. Ahmed and **Younis A. Gismalla** "Prediction of sediment pattern in Roseires reservoir using Area Reduction Method" Submitted to Gezira Journal of Engineering and Applied Sciences. ISBN 1858-5698 ردمك.
10. Amarnath G., Simons, G.W.H. , Alahacoon N., Smakhtin, V, Sharma, B., **Gismalla, Y.**, Mohammed, Y. and Andriessen, M.C.M. "Smart ICT for weather and water information to smallholders in Africa: the case of the gash river basin, Sudan". Submitted to the Climate Risk Management Journal, August 2016 – Elsevier publisher.
11. **Younis A. Gismalla**, Ahmed S. Hussein, Ali A. Mohammed "Evaluation of Sennar Reservoir Surveys" to be submitted to International Journal of Sediment Research IJSR. Drafted paper
12. **Younis A. Gismalla**, Yasir A. Mohamed, Khalid G. Biro, Remco Dost, Maurits Voogt " Satellite based ICT for improved crop production in the Gezira Scheme – Sudan". Submitted to the Irrigation and Drainage Journal.
13. **Younis A. Gismalla**, Ahmed S. Hussein, Ali A. Mohammed "Evaluation of Present Sediment Management in Sennar reservoir" to be submitted to International Journal of Sediment Research. Drafted paper
14. **Younis A. Gismalla**, Ahmed S. Hussein, Ali A. Mohammed "Flushing of Sennar reservoir" to be submitted to International Journal of Sediment Research. Drafted paper

B. CONFERENCE PROCEEDINGS

15. **Younis A. Gismalla**, "Towards sustainable rainwater harvesting projects in Sudan". The Second International Forum on Water harvesting Social, Economic and Environmental Impacts. Khartoum 26-27 September 2016.

- 16. Younis A. Gismalla**, Yasir Mohamed, Khalid Biro, Remco Dost and Maurits Voogt “Satellite based ICT for improved crop production in Gezira”. The Global Forum for Innovations in Agriculture (GFIA Africa). Durban – South Africa 1-2 December 2015.
- 17. Younis A. Gismalla**, Yasir A. Mohamed, Gijs Simons, Maurits Voogt, Bharat Sharma, Giriraj Amarnath, Vladimir Smakhtin “Towards a remote sensing based operational decision support system for agricultural water and crop management in the Gash Delta – Sudan”. The 4th NBDF, 6-7 October 2014, Nairobi, Kenya
- 18.** Giriraj Amarnath, Niranga Alahacoon, Bharat Sharma, Gijs Simons, **Younis A. Gismalla**, Yasir Mohammed, Vladimir Smakhtin” Flood Mapping Services and Development of Flood Forecasting Tool (Gash Catchment, Sudan)”. 6th Annual ICT4D Conference, March 25-28, 2014, Nairobi, Kenya
- 19. Younis A. Gismalla** "Sediment characteristics and distribution in the Blue Nile in Sudan". The International Conference on: New Nile Perspectives – Scientific Advances in the Eastern Nile Basin. Khartoum 6 – 8 May 2013.
- 20.** Giriraj Amarnath, Gijs Simons, Bharat Sharma, Yasir Mohammed, **Younis A. Gismalla** and Vladimir Smakhtin "Smart-ICT for weather and water information and advice to smallholders in Africa". The International Conference on: New Nile Perspectives – Scientific Advances in the Eastern Nile Basin. Khartoum 6 – 8 May 2013.
- 21.** Ahmed Salih, Abu Obeida B. Ahmed, **Younis A. Gismalla**, Mohamed S. Mohamed and Hassan A. Ali "مخرجات التعليم الهندسي و متطلبات سوق العمل " المؤتمر الهندسي العربي الرابع و العشرون تحت عنوان التعليم الهندسي في الوطن العربي. عمان 14-16 مايو 2007م.
- 22. Younis A. Gismalla** " Sedimentation in Small Dams of Western Sudan "; The International Sediment Initiative Conference – UNESCO Chair in Water Resources – Khartoum 27- 30 November 2006.
- 23. Younis A. Gismalla** "Hydraulic Design of small dams- Sudan experience"; Submitted to the First Symposium on Dams Management & Operation – Riyadh – 19-20 November 2005.
- 24.** Ahmed A. Ibrahim, **Younis A. Gismalla** et al" استخدامات الموارد المائية "المنتدى الشهري لمجلس الوزراء – يونيو 2005م. "بالسودان
- 25.** Ahmed A. Ibrahim and **Younis A. Gismalla** " Bank erosion in the main Nile Stretch (The Northern State of Sudan)" 1st Regional Workshop on

Capacity Building in River Morphology, 29 -3 October 2002, Khartoum Sudan.

26. Obu Obeida B. Ahmed & *Younis A. Gismalla* " ورشة عمل مستقبل البحث العلمي في مجال المياه : مركز الشهيد الزبير للمؤتمرات -الخرطوم 9سبتمبر 2002
27. *Younis A. Gismalla* & Obu Obeida B. Ahmed "ورقة قطرية عن تعزيز البحوث " المشتركة في مجال كفاءة استخدام الموارد المائية في الدول العربية Manama, Bahrain, 30 Nov. – 2 Dec. 1999. Published by AOAD.
28. *Younis A. Gismalla*, Abu Obeida B. Ahmed, Mohamed "Sediment Monitoring and Management - Sudan Experience" Country paper 1998.
29. *Younis A. Gismalla*; "Reservoir Sedimentation: Roseires Case" Nile 2002 Conference, Kigali, Rwanda 1998.
30. Siddig O. Abdelgadir & *Younis A. Gismalla*;" Flood Water Harvesting in the Sudan"; International Symposium on: Hydrology in a changing Environment. 6-10 July 1998. Exter University, UK.
31. *Younis A. Gismalla*, "Irrigation in the Republic of the Sudan", Country paper presented to: The International course on irrigation and Drainage, November 1997, Kota Bahro, Malaysia.

Alluvial rivers and streams

C. UN PUBLISHED PAPERS:

32. *Younis A. Gismalla* "The Gash Training and Kassala Protection" Unpublished Paper.

D. ARTICLES IN NEWSLETTERS:-

33. *Younis A. Gismalla* " Alluvial rivers and streams" an article in HRC newsletter, No., March 2017
34. *Younis A. Gismalla* "Smart-ICT for weather and water information and advice to smallholders in the Gash" an article in HRC newsletter, No. 3, March 2013.
35. Edition of the half monthly Sediment Monitoring News Bulletin. First Issue was published in August 2000.
36. *Younis A. Gismalla* "The Blue Nile Sediment Monitoring" an Article in Sudan Irrigation and Drainage Newsletter No. 12, December 1998.

37. *Younis A. Gismalla* "Training of Gash River and Protection of Kassala City" Article in Sudan Irrigation and Drainage Newsletter No.18, June 2000.
38. *Younis A. Gismalla* "Schistosmiasis in Irrigated Agricultural Schemes" an Article in Sudan Irrigation and Drainage Newsletter No.19.

E. LECTURES & PRESENTATIONS:-

39. *Younis A. Gismalla* "Indenting in Gezira Using Farbrother Tables of Crop-Water Requirements" PowerPoint presentation, 29-31 July 2008.
40. *Younis A. Gismalla* "Benefits and Impacts of Dams" PowerPoint Presentation, at HRS Hall for the Visiting Students and Lecturers from College for Environmental Studies -Ahfad University. June 2007.
41. *Younis A. Gismalla* "Nile DST training workshop" Nov. 2007.
42. *Younis A. Gismalla* "Introduction to GPS" 2005.
43. *Younis A. Gismalla* "Problems of Sedimentation in Sudan" 3 Nov. 2008

F. SUPERVISED M.SC. THESIS:-

44. **"Comparison of Empirical and Theoretical Methods of Design of Spurs for Gash River Training"**. By Limya Mahgoub Mohamed, Water Management and Irrigation Institute, University of Gezira, November 2005.
45. **"Irrigation Water Shortages, Problems and recommended Solutions; Case Study: Himeidan Major, Centre Group, Gezira Scheme"**. By Hafiz Ahmed Mohamed; Water Management and Irrigation Institute, University of Gezira; February 2008.
46. **"Effect of Improper Silt Removal on the Original Design Dimensions of Three Minor Canals in Hag Abdalla, Gezira Scheme"**. By Haroun El Bushra Izairig. Water Management and Irrigation Institute, University of Gezira, February 2008.
47. **"Effect of Siltation on the Flow of Habeba and Rahmtalla Minor"**. By Adam Ibrahim Mohamed. 2008.
48. **"Evaluation of Al Fashir Domestic Water Supply"**. By Al Tayeb Adam El Safi. 2008.

49. External Examiner for Mohamed Elrayah Mohamed ElTaib "**Reduction of Urban runoff peak flow by bonding**", April 2010.
50. External Examiner for Ammar Abdalla Badawi Alameen "**Design of Storm Drain. Case Study: El Managil Town – Sudan**" April 2010.

G. BOOKS:-

51. Abu Obeida B. Ahmed, Yasir Abbas Mohammed, **Younis A. Gismalla**, et al. "Flood Embankment Design, Operation and Maintenance Manual 2010
52. Giriraj Amarnath, Niranga Alahacoon, **Younis A. Gismalla**, Yasir Mohammed, Bharat R. Sharma and Vladimir Smakhtin "Flood Forecasting: A Global Perspective". Chapter on: Trans-boundary river basin flood forecasting and early warning system experience in the Gash River Basin, Horn of Africa. Elsevier publisher 2016.

H. REPORTS ON APPROVED HRS RESEARCH PROJECTS:

53. Nazik Abdullahi, Altaeb Rahamtoallah F. Abass and **Younis A. Gismalla**. The Sediment Monitoring Programme of the Blue Nile System- 2016. Dec. 2016. HRS Tech. Report, Wad Medani – Sudan.
54. الطيب رحمة الله، نازك عبد الله و يونس عبد الله قسم الله "تقرير عن تركيز الإطماء في فترة غسيل خزان خشم القرية للعام 2016م". اكتوبر 2016م
55. Nazik Abdullahi, Altaeb Rahamtoallah F. Abass and **Younis A. Gismalla**. The Sediment Monitoring Programme of the Blue Nile System- 2015. February 2016. HRS Tech. Report, Wad Medani – Sudan.
56. Amira A. A. Mekawi, **Younis A. Gismalla** "The Sediment monitoring programme- 2014", June 2015; HRS Tech. Report, Wad Medani – Sudan
57. Amira A. A. Mekawi, **Younis A. Gismalla** "The Sediment monitoring programme- 2013", June 2014; HRS Tech. Report, Wad Medani – Sudan
58. Amira A. A. Mekawi, **Younis A. Gismalla** "The Sediment monitoring programme- 2012", April 2013; HRS Tech. Report, Wad Medani – Sudan
59. **Younis A. Gismalla**, Amira A. A. Mekawi "*The Sediment monitoring programme- 2011*", June 2012; HRS Tech. Report, Wad Medani – Sudan
60. **Younis A. Gismalla**, Amira A. Mekkawi "*The Sediment monitoring programme- 2010*", March 2012; HRS Tech. Report, Wad Medani – Sudan

61. **Younis A. Gismalla**, Mudathir A. Zaroug "*The Sediment monitoring programme- 2009*", March 2010; HRS Tech. Report, Wad Medani – Sudan
62. **Younis A. Gismalla**, Mudathir A. Zaroug "*The Sediment monitoring programme- 2008*", February 2009; HRS Tech. Report, Wad Medani – Sudan
63. **Younis A. Gismalla**, Khalid Elnour Ali "*The Sediment monitoring programme- 2007*", August 2008; HRS Tech. Report, Wad Medani – Sudan.
64. **Younis A. Gismalla**, Khalid Elnour Ali "*The Sediment monitoring programme- 2006*", June 2008; HRS Tech. Report, Wad Medani – Sudan.
65. **Younis A. Gismalla**, Mohanad O. Mustafa "*The Sediment monitoring programme - 2005*", June 2007; HRS Tech. Report, Wad Medani – Sudan.
66. **Younis A. Gismalla**, Mohanad O. Mustafa "*A Progress Report on: The Sediment monitoring programme*", December 2005; HRS Tech. Report, Wad Medani – Sudan.
67. **Younis A. Gismalla**, Mohanad O. Mustafa " *A Progress Report on: Settling Basins in Gezira Minor Canals*", December 2005; HRS Tech. Report, Wad Medani – Sudan.
68. **Younis A. Gismalla**, Mohanad O. Mustafa "*The Sediment monitoring programme; Annual Report 2004* ", June 2005; HRS Tech. Report, Wad Medani – Sudan.
69. **Younis A. Gismalla**, Eiman M. Fadul, Yasir S. Ahmed “*Remodelling of Rahad Link Canal to maintain a stable section*”, HRS Report, December 2003.
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