

## **Curriculum Vitae**

**ICE-SA Panel of NEC Adjudicators**

**Mr Andrew Lindsay Griffiths**

**Personal Details:**

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**Forenames:** Andrew Lindsay**Surname:** Griffiths**Gender:** Male**Language:** English

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**ICE Membership Grade:** Fellow**ECUK Registration Level:** CENG**Contract Experience:**

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Mr Griffiths is a Civil Engineer with a specialisation in dams, tunnels and underground works.

He is a:

- Registered Professional Engineer (RSA),
- Chartered Engineer (UK),
- Fellow of the South African Institute of Civil Engineers,
- Fellow of the Institution of Civil Engineers (UK),
- Fellow of the Association of Arbitrators (Southern Africa),
- the Southern African representative of the Dispute Review Board Foundation,
- and is on the both the SAICE and CESA President's lists of mediators and arbitrators.

## Career Overview:

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Andy Griffiths is a Civil Engineer with a specialisation in dispute resolution, dams, tunnels and underground works. He is a Registered Professional Engineer (RSA), a Chartered Engineer (UK), a Fellow of the South African Institute of Civil Engineers, a Fellow of the Institution of Civil Engineers (UK), a Fellow of the Association of Arbitrators (Southern Africa), President-elect of Region 2 of the Dispute Review Board Foundation, and is on the both the SAICE and CESA President's lists of mediators and arbitrators, as well as the CIDB list.

He is a member of the FIDIC President's List of Accredited Dispute Adjudicator's.

He has experience with NEC, FIDIC, GCC and other forms of Contract.

## Experience:

**2014 – present: DAB (Dispute Adjudication Board) Chairman:** Standing DAB for a roads contract in Eastern Zambia (FIDIC Red Book)

**2014 – ADJUDICATOR:** Dispute on building project in Western Cape (NEC3 Short Form)

**2013 – present: DAB (Dispute Adjudication Board) Member:** Ad-hoc DAB for 4 disputes on a major contract at Medupi Power Station (FIDIC Yellow Book)

**2013 – present: DAB (Dispute Adjudication Board) Chairman:** Standing DAB for a structures contract at Kusile power station (FIDIC Red Book)

**2012 – present: DAB (Dispute Adjudication Board) Chairman:** Standing DAB for ORWRDP2 water pipeline and pump-station project (FIDIC Red Book).

**2013 – present: DAB (Dispute Adjudication Board) Sole Member:** Standing sole member DAB for a roads contract in Northern Lesotho (FIDIC Red Book)

**2013 – 2014: ADJUDICATOR:** 10 No disputes on GHHER Project, Secunda (NEC3)

**2012 – 2014: DAB (Dispute Adjudication Board) Chairman:** Ad-hoc DAB for 2 disputes on a major sub-contract at Medupi Power Station (FIDIC Yellow Book).

**2013: ADJUDICATOR:** Disputes on a pipeline diversion contract (NEC3)

**2013: MEDIATOR:** Dispute on Waste Water Treatment Works near Johannesburg (SA GCC 2004) – Mediation successful

**2013: DAB (Dispute Adjudication Board) Member:** Dispute Board Member (Ad-hoc DAB) for a pipeline project in KZN (SA GCC 2010)

**2013: ADJUDICATOR:** Disputes on TOC Abatement Project in Secunda (NEC3)

- 2013: ADJUDICATOR:** Disputes on gas pipeline project (NEC3).
- 2012: ADJUDICATOR:** Disputes on gas pipeline project (NEC3).
- 2012: ADJUDICATOR:** 2 Disputes on FT Wax Expansion Project Work Package 03 (NEC3).
- 2012: ADJUDICATOR:** Dispute on FT Wax Expansion Project Work Package 06 (NEC3).
- 2012: ADJUDICATOR:** 2 Disputes on pipeline diversion project (NEC3).
- 2011:- ADJUDICATOR:** Dispute on sewer & water pipeline project (NEC3)
- 2010:- ADJUDICATOR:** Dispute on water pipeline, reservoir and access road project (NEC3)
- 2010 – 2011: MEDIATOR:** Dispute on generator installation and refurbishment contract. Mediation agreement achieved and dispute settled. (FIDIC Short form)
- 2009 – Present: MOKOLO – CROCODILE WATER AUGMENTATION PROJECT** Chairman of Management Committee and Contracts Specialist for R14 billion pipeline project to supply water to the Lepalale / Waterberg Coalfield area. (FIDIC Red Book)
- 2009: ADJUDICATOR - INGULA PUMPED STORAGE SCHEME, RSA** Adjudicator appointed under NEC Contracts in respect of 7 disputes arising out of the Contracts for the Main Access Tunnel and Construction Access Tunnels. All disputes settled on basis of adjudicators decisions. (NEC2)
- 2008 – Present: THUNE DAM, BOTSWANA** Project Director for Thune Dam, a 32.5m high by 1,500m long clay core earthfill dam with a central RCC spillway. Project also includes a water treatment works, pumpstation, delivery pipeline and access road. (FIDIC Red Book)
- 2005 – 2009 DAM SAFETY REHABILITATION PROGRAMME** Project Director for rehabilitation of nine dams (eight earthfill and one concrete) varying in height from 10m to 50m. (SA GCC)
- 2008: ARBITRATOR - 6 DAMS, SMITHFIELD DISTRICT, RSA** Arbitrator for a dispute concerning the construction of 6 earthfill dams in Smithfield District of South Africa. The dams varied in height between 5 and 9m, the largest of which failed during first flood. The Disputes were settled during the arbitration hearing.
- 2003 – 2009 BERG WATER PROJECT SUPPLEMENT SCHEME CONTRACT** Chairman of the Management Committee and Contract Specialist. The Berg Dam comprises a 70m high by 990m wide concrete faced rockfill dam with a side channel spillway. Chairman of DAB for pump-station civil works, weir, balancing dam and de-silting works. (FIDIC Red Book)
- 2007 – 2011: De HOOP DAM, RSA** Management Committee Representative and Contract Specialist for De Hoop Dam, a 81m high by 1,020m long RCC dam with a central spillway. (FIDIC Red Book)

- 2004 – 2007**      **DURBAN HARBOUR TUNNEL** Project Director for award winning soft ground sub-aqueous tunnel (FIDIC Red Book)
- 2005 – Present**    **VAAL RIVER EASTERN SYSTEM AUGMENTATION PROJECT (VRESAP)** JV Manco member, Project Director, the Engineer and contracts specialist advisor for 120km, 1.9m dia pipeline from Vaal Dam to Secunda. (FIDIC Red Book)
- 2005 – 2009:**      **LESOTHO HIGHLANDS WATER PROJECT, FURTHER PHASES FEASIBILITY STUDY** Member of the Management Committee and specialist reviewer.
- 2005**      **MEDIATOR** : Factory roofing project
- 2004**      **DISPUTE BOARD - INJAKA DAM** Chairman of Disputes Review Board (SA GCC)
- 2001 – 2005**      **GAUTRAIN** Manco member of engineering JV and specialist advisor on tunnelling & contracts, Value R7 billion
- 2003 – 2005**      **LEEUEWKOP RELIEF OUTFALL SEWER** Project Director. Includes pipeline, tunnel, pipe bridge and short pipe-jack. Value 45m (SA GCC)
- 1999 – 2004**      **Lesotho Highlands Water Project – LHWP, Phase 1B, Mohale Tunnel and Matsoku Diversion** Project Director and “The Engineer”. Mohale Tunnel is 32 km long. Value R905 million. Matsoku Diversion Project comprises an 18m high mass concrete weir and 6 km long tunnel. Value R290 million. (FIDIC Red Book)
- 2001 – 2002**      **MAGUGA DAM, SWAZILAND** Management Committee. 110 m high, clay core rockfill dam. Project Value = R500 million (FIDIC Red Book)
- 1998 – 2000**      **KAMAZU DAM II, MALAWI** Specialist advisor on contract claims and contract administration.
- 1988 - 2000**      **Lesotho Highlands Water Project – LHWP, PHASE 1A, KATSE DAM AND TRANSFER TUNNEL** 1997 - 2001 Project Manager, 1993 - 1997 Deputy Project Manager, 1990 – 1993 Senior Contracts Engineer, Project Value = R2.6 billion. Responsible for all aspects of JV's operations for design, project management and construction supervision. The Engineer in terms of the FIDIC conditions of contract. **Katse Dam:** Double curvature concrete arch dam, 185m high. **Transfer Tunnel:** 45 km long, 5m dia TBM driven tunnel. (FIDIC Red Book)

#### **Official positions held**

- 2013 – present      Director: Contractual Affairs Infrastructure, Hatch Goba (Pty) Ltd
- 2005 - 2013      Director, GOBA (Pty) Ltd

2001 - 2004	Director, Goba Moahloli Keeve Steyn (Pty) Ltd
1993 - 2001	Director, Keeve Steyn (Pty) Ltd
2009 - present	Chairman, Mokolo Crocodile Consultants JV
2010 - present	Chairman, Thune Dam Consultants JV
2003 - 2009	Chairman, Berg River Consultants JV
2001 - 2005	Project Director, LHWP - Mohale Tunnel
1997 - 2000	Project Manager – LHWP, Katse Dam and Transfer Tunnel
1993 - 1996	Dep Project Manager – LHWP, Katse Dam and Transfer Tunnel

### **NEC Experience:**

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Andy Griffiths has been an Arbitrator, Mediator or Adjudicator on over 50 disputes, 30 of which were under the NEC contracts, the balance being either the FIDIC, SAGCC or bespoke forms of Contract.

He is well versed in Dispute Board processes under the FIDIC form of Contract, having also served on 8 dispute boards. He is a member of the FIDIC President's List of Accredited Dispute Adjudicator's.

He has also tutored at various DRBF International Conferences and Workshops.

### **Built Environment Experience:**

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Andy Griffiths has over 38 years post-graduate experience the majority of which included experience of working in multi-national joint ventures of consulting engineers on dams and tunnels, dealing with major international construction companies. He has particular experience in dispute resolution, dispute adjudication, construction management, contract procurement, contract administration, claims adjudication and large-scale engineering projects.

Major infrastructure contracts where he has played a major role include:

- Mokolo Crocodile Water Augmentation Project (MCWAP) – 40 km large diameter steel pipeline & pumpstation
- Berg Water Project – 65m high DFR Dam, 15km km large diameter steel Pipeline & Pumpstation
- Durban Harbour Tunnel – 650m 4m dia, sub-aqueous tunnel excavated by slurry shield TBM
- Vaal River Eastern System Augmentation Project (VRESAP) – 120 km large diameter steel

- pipeline, abstraction works & pumpstation
- Lesotho Highlands Water Project (LHWP) – Katse Dam, 185m high double curvature arch dam
- LHWP – Transfer Tunnel – 45km long, 5m dia tunnel excavated by hard rock TBM
- LHWP – Mohale Tunnel – 32km long 5m dia tunnel excavated by hard rock TBM
- LHWP – Matsoku Weir & Diversion Project – 18m high concrete gravity dam; 6km drill and blast tunnel

## Other Professional Activities and Publications

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### Professional Associations

- FIDIC President's List of Approved Dispute Adjudicators
- CIDB list of Approved Adjudicators
- Fellow, Association of Arbitrators (Southern Africa)
- President-elect (Region 2) and Country Representative Coordinator, Dispute Resolution Board Foundation (DRBF)
- Fellow, SA Institution of Civil Engineers
- Fellow, Institution of Civil Engineers (UK)
- Pr Eng, Professional Engineer (RSA)
- C Eng, Chartered Engineer (UK)

### Committee Activities

**2010 – present:** Board Member - Dispute Resolution Board Foundation (Region 2)

**2006 – 2010:** Country Rep - Dispute Resolution Board Foundation

**2005 – 2011:** Member - SANCOT – South African National Committee on Tunnelling

**2008 – 2014:** Member - ICE-SA Committee

**2009 – 2012:** Member - CESA Quality and Risk Management Committee.

**2011 – present:** Member - CESA Legal Forum

### Publications

“Durban Harbour Tunnel – First Use of a Slurry Tunnel Boring Machine in South Africa”, by A Hindmarch, A Griffiths, A Officer and G Wittneben, RETC Conference, 2007 Rapid Excavation & Tunneling Conference (RETC), 10-13 June 2007, Toronto, Canada [This paper was the recipient of the SANCOT Alec Wilson Memorial Award for the best paper on tunnelling, 2008]

"The Lesotho Highlands water project - Project Management", by S Nthako and A L Griffiths, ICE Proceedings, 1997

"The Engineer's cost estimates for the Transfer Tunnel of the Lesotho Highlands Water Project", Tuncon '92 - The Design and Construction of Tunnels, 13 - 17 September 1992, Maseru, Lesotho.