

ANNEXURE A SCHEDULE OF ACCREDITATION

Facility Number: **T0444**

Permanent Address of Laboratory:

Mining and Surface Certification (Pty) Ltd
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Technical Signatories:

Mr R Viljoen (All Methods excluding 7.1, 7.2, 7.3, 7.8.1)
Mr F du Toit (All methods)
Mr G Schepers (Item 1.1; 1.2;1.3; 1.7; 1.8; 3.5; 5.1; 7.1;7.2; 7,3 & 8.1)
Mrs A Koekemoer (Item 1.1; 2.2; 2.5; 3.5 & 5.1)
Mr EL van Niekerk (Item 1.1; 1.2; 1.7; 1.8; 3.5; 5.1; 7.1; 7.2 & 7.3)
Mr M Erasmus (Item 2.2;3.5 & 5.1)
Mr D Visser (1.1;1.5;1.6;1.7;1.8;1.9;2.5;4.1 & 4.2)
Mr J Riekert (1.1;1.2;1.5;1.6;1.7;1.8;1.9;2.2;2.5;3.5; 4.1;4.2 & 5.1)
Mr R Zeelie (1.1; 1.2;1.5;1.6;1.7;1.8;2.2;2.5; 3.5 & 5.1)
Mr R Booysen (1.1;1.2;3.5 & 5.1)

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Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
Electrical apparatus for explosive gas atmosphere	Item 1.1 Explosive atmospheres Part 0: Equipment - General requirements	IEC 60079-0:2017 SANS 60079-0:2012 IEC 60079-0:2011 SANS 60079-0:2009 IEC 60079-0:2007 SABS IEC 60079-0
	Item 1.2. Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"	SANS 60079-1:2015 IEC 60079-1: 2014 SANS 60079-1:2009 IEC 60079-1:2007 SABS IEC 60079-1 SANS 60079-1:2004 IEC 60079-1:2003
	Cable glands for use on flameproof enclosures (Ex d)	SANS 808: 2013
	Item 1.3. Explosive atmospheres Part 2: Equipment protection by pressurized enclosures	SANS 60079-2:2015 IEC 60079-2:2014 SANS 60079-2:2007

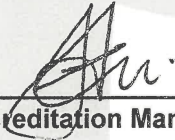
		IEC 60079-2:2007 SABS IEC 60079-2 SANS 60079-2:2001 IEC 60079-2:2001
	Item 1.4. Explosive atmospheres Part 5: Equipment protection by powder filling "q"	SANS 60079-5:2016 IEC 60079-5:2015 SANS 60079-5:2009 IEC 60079-5:2007 SABS IEC 60079-5 SANS 60079-5:1997 IEC 60079-5:1997
Electrical apparatus for explosive gas atmosphere (continued)	Item 1.5. Explosive atmospheres Part 7: Equipment protection by increased safety "e"	IEC 60079-7:2015 SANS 60079-7:2007 IEC 60079-7:2006 SABS IEC 60079-7 SANS 60079-7:2003 IEC 60079-7:2001
	Item 1.6. Explosive atmospheres Part 11: Equipment protection by intrinsic safety "i"	SANS 60079-11:2012 IEC 60079-11:2011 SANS 60079-11:2007 IEC 60079-11:2006 SABS IEC 60079-11 SANS 60079-11:1999 IEC 60079-11:1999
	Item 1.7. Electrical apparatus for explosive gas atmospheres Part 15: Construction, test and marking of type of protection "n" electrical apparatus	SANS 60079-15:2010 IEC 60079-15:2010 SANS 60079-15:2006 IEC 60079-15:2005 SABS IEC 60079-15 SANS 60079-15:2001 IEC 60079-15:2001
	Item 1.8. Explosive atmospheres Part 18: Equipment protection by encapsulation "m"	SANS 60079-18:2017 IEC 60079-18: 2014 SANS 60079-18:2009 IEC 60079-18:2009 SABS IEC 60079-18 SANS 60079-18:2005 IEC 60079-18:2005
	Item 1.9. Electrical apparatus for explosive gas atmospheres Part 25: Intrinsically safe systems	SANS 60079-25:2010 IEC 60079-25:2010 SANS 60079-25:2003 IEC 60079-25:2003
	Item 2.1. Explosive atmospheres Part 26: Equipment with equipment protection level (EPL) Ga	IEC 60079-26:2014 SANS 60079-26:2007 IEC 60079-26:2006
	Item 2.2. Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"	SANS 60079-31: 2014 IEC 60079-31:2013 SANS 60079-31: 2009 IEC 60079-31:2008
	Item 2.3 Caplights for use in mines Susceptible to firedamp-general requirements- construction and testing in relation to the risk of explosion	SANS 60079-35-1: 2013 IEC 60079-35-1: 2011

	Item 2.4 Caplights for use in mines Susceptible to firedamp-performance and other safety-related matters	SANS 60079-35-2: 2013 IEC 60079-35-2:2011
	Item 2.5 Portable light assemblies for underground use in mines	SANS 1438:2013
Ingress Protection	Item 3.1. Electrical apparatus for use in the presence of combustible dust Part 0: General requirements	SANS 61241-0:2005 IEC 61241-0:2004 SANS 61241-1-1:1999
	Item 3.2. Electrical apparatus for use in the presence of combustible dust Part 1: Protection by enclosures "tD"	SANS 61241-1:2005 IEC 61241-1:2004 SANS 61241-1-1:1999
Ingress Protection (continued)	Item 3.3. Electrical apparatus for use in the presence of combustible dust Part 11: Protection by intrinsic safety "iD"	SANS 61241-11:2007 IEC 61241-11:2005
	Item 3.4. Electrical apparatus for use in the presence of combustible dust Part 18: Protection by encapsulation "mD"	SANS 61241-18:2005 IEC 61241-18:2004
	Item 3.5. Degrees of protection provided by enclosures (IP Code)	SANS 60529:2013 IEC 60529:2013 SANS 60529:2001 IEC 60529:2001 SABS IEC 60529:1989
Gas measuring equipment	Item 4.1. Gas measuring equipment primarily for use in mines Part 1: Battery-operated portable, flammable gas measuring instruments and warning devices	SANS 1515-1:2014 SANS 1515-1:2006
	Item 4.2 Fixed, transportable, and vehicle mounted flammable gas measuring and warning sensor heads and instruments	SANS 1515-2: 2006 SANS 1515-2: 2014
Batch sampling	Item 5.1. Batch sampling and acceptance criteria for explosion-protected apparatus (EPA)	SANS 96:2006
Mechanical cable glands	Item 6.1. Mechanical cable glands	SANS 1213:2011, Clause 7 SANS 1213:2017, Clause 8
Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmosphere or both	Item 7.1 Part 1-1:Hazardous locations in underground mines-Basic explosion protected engines Part 1-2:Hazardous locations in underground Mines-Explosion protected engine systems Part1-3:Hazardous locations in underground Mines-Machines	SANS 868-1-1:2005 SANS 868-1-2:2013 SANS 868-1-3:2013

	Item 7.2. Part 3-1: Hazardous Locations on surface-Basic explosion-protected engines	SANS 868-3-1:2012 SANS 868-3-1:2016
	Part 3-2:Hazardous locations on surface- Explosion protected engine systems	SANS 868-3-2:2012
	Part 3-3:Hazardous locations on surface-Machines	SANS 868-3-3:2012 SANS 868-3-3:2017
	Item 7.3 Part 4:Non-hazardous locations in underground coal mines	SANS 868-4:2005
Electrical connectors in group I and II hazardous areas	Item 8.1.Part 1: General requirements for group I hazardous areas	SANS 1489-1:2014 SANS 1489-1"2016
	Part 2: Restrained type plugs and sockets for group I hazardous areas	SANS 1489-2:2013
	Part 3: Bolted type plugs and sockets for group I hazardous areas	SANS 1489-3:2014
	Part 4: Medium voltage couplers and adaptors for group I Hazardous areas	SANS 1489-4:2013

Original Date of Accreditation: 22 February 2010

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Accreditation Manager