Contents

1. Introduction 1
2. Preliminary Details 3
2.1 Brief Project Description 3
2.2 Type of Response Expected from the Vendor 3
2.3 Critical Criteria on Bid Rejection 3
3. Scope of Supply 5
3.1 Vendor/Client Interfaces 5
3.2 Procurement Responsibilities 5
3.3 Standards and Codes of Practice 5
3.4 Documentation Requirements 6
3.4.1 Quotation Stage 6
3.4.2 Project Stage 6
3.4.3 Project Completion 6
3.5 General Specification 7
3.5.1 Environment 7
3.5.2 Hazardous Area Classification 7
3.5.3 Equipment Certification 7
3.5.4 Utility Systems 7
3.5.5 Labelling 8
3.6 Analyser House Specification 8
3.6.1 Overall Layout, Size Constraints and Location 8
3.6.2 Construction 9
3.6.3 Ventilation 9
3.6.4 Air Conditioning 9
3.6.5 Power Distribution 10
3.6.6 Safety Systems 10
3.6.7 Monitoring and Alarm Systems 11
3.6.8 Signal Interfacing with Control Systems 11
3.7 Sample System Specifications 11
3.7.1 Sample Probe Design and Location 11
3.7.2 Sample Conditioning 11
3.7.3 Sample Transport 12
3.7.4 Safety (Pressure and Temperature Considerations) 12
3.7.5 Analyser Validation 12
3.8 Analyser Specification 13
3.8.1 Description, Tag Numbers and Control 13
3.8.2 Systems Vendor Responsibilities 13
3.8.3 Data Sheets 13
3.8.4 Analyser Certification 13
3.8.5 Analyser Performance Requirements 13
3.8.6 Materials of Construction 14
3.8.7 Signal Interface Requirements 14
3.9 Inspection and Testing 14
3.9.1 Analysers at Analyser Vendor's Works 14
3.9.2 Analysers and Systems at Systems Vendor’s Works 14
3.9.3 Commissioning and Site Acceptance Tests 16
3.10 Training 16
3.10.1 Training Requirements 16
3.11 Spare Parts 16
3.11.1 Spare Parts Requirements 16

4. Bid Technical Evaluation 17
4.1 Object 17
4.2 Correct Response to the Bid 17
4.3 Technical Excellence 17
4.4 Comparative Testing 18
4.4.1 Allowance for Technical Interpretation 18
4.4.2 Assigning Key Areas 18
4.4.3 Weighting Functions 18
4.5 Bid Qualification Meetings 19
4.6 Reassessment of Comparative Testing 20
Appendix A Sample Analyser Specification Template 21