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1. INTRODUCTION

Arnot Power Station is a coal fired power station located in the Mpumalanga Province; it comprises of six Turbine-Generator sets capable of generating 350MW each sent out to the Eskom grid. The control system used is ABB P14/P13 Distributed Control System (DCS) and is used for all operation, control, and protective functions.

The Eskom Water Accounting and Management Framework Standard, (240-10520080) has requirements that mandate the monitoring, management, accounting and reporting of water to ensure that all major processes are balanced such as potable water and demineralised water. Furthermore, Arnot Power station experiences significant water losses and constraints such that in high water usage situations, the central tank levels drop, without an indication of which unit has drawn water. Thus, it is difficult to account for each unit's consumption leading to Demin water constraints and high- partial load losses.

Hence, to conform to this standard an Ultrasonic Flow Measurement System (UFMS), (one for each unit and four at the north and south, Central Reserve Feed Water Tanks (CRFWT)) should be installed to measure the magnitude of Demin water being used by each unit. This Ultrasonic Flow Measurement System is required to enable a swift diagnosis of high-water consumption that contributes to partial load losses as well as water plant constraints.

2. SUPPORTING CLAUSES

2.1 SCOPE

The Works information includes the provision of a fully integrated Ultrasonic Flow Measurement System (UFMS) that meets the Employers' requirements:

- a) The *Contractor* ensures that the design, engineering, procurement, manufacturing, factory acceptance testing, offloading on site, storage, installation and commissioning are catered for.
- b) The *Contractor* ensures that the Ultrasonic Flowmeters are installed on the Balance Main Line between the Central Reserve Feed Water Tanks (CRFWT) and Reserve Feed Water Tank (RFWT) for each unit. See below figure indicating the exact locations where flow meters shall be installed.
- c) The *Contractor* ensures that the Ultrasonic Flowmeters are installed at CRFWT outlets to the Balance Main Line.
- d) The *Contractor* ensures that the UFMS has the reverse and forward flow measurement capability.
- e) The *Contractor* ensures that the Ultrasonic Flowmeter is powered by 220 Vac. The 220 Vac power source shall be from a reliable electrical distribution board provided by the Employer in the EDS room. The Contractor ensures that they provide a local DB on the 184 level, 10m from where the Ultrasonic Flowmeter is to be installed.
- f) The *Contractor* ensures that the Ultrasonic Flowmeter is interfaced to the existing ABB DCS P14 system for units 1,2, and 3 and P14 system for units 4,5 and 6.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This document is applicable to all interested parties with regards to design, engineering, procurement, manufacturing, factory acceptance testing, offloading on site, storage, installation and commissioning of a UFMS, particularly the Engineering, Procurement and Projects departments at Arnot Power Station.

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2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

- [1] 240-168966153: Generation Technical Tender Evaluation Procedure
- [2] 32-1034: Eskom Procurement Policy

2.3 DEFINITIONS

Terminology	Interpretation
Commissioning	The activities from the point in the project when construction is complete (or equipment is installed) until the equipment is placed into service and handed over to the Owner's operations team for continued operation and maintenance.
Engineering	The practice of using natural science, mathematics, and the engineering design process to solve problems within technology, increase efficiency and productivity, and improve systems.
Mandatory	Required by law or mandate; compulsory.
Procurement	The overarching process of identifying needs, sourcing suppliers, negotiating terms, and managing relationships to acquire goods and services.
Reserve Feed water Tank	large tank that is used to store feed water for the unit as well as a site to discard excess water that may be in the system.
Sales Channel Partner/ Association	Refers to a company that partners with a manufacturer or producer to market and sell the manufacturer's products, services or technologies.
Specification	The document/s forming part of the contract in which are described the methods of executing the various items of work to be done, and the nature and quality of the materials to be supplied and includes technical schedules and drawings attached thereto as well as all samples and patterns
Ultrasonic	A technique that utilizes high-frequency sound waves,
Ultrasonic Flow Measurement System (UFMS)	System comprising ultrasonic clamp-on flowmeters, associated cabling, junction boxes, power supplies, signal processing equipment, DCS interface, and all related components forming part of the Works- Refer to Scope of Works, AECI 0129 for details.
Water Balance	A system equation that describes the amount of water in and out of a system or process.

2.3.1 Classification

Controlled Disclosure: Controlled Disclosure to external parties (either enforced by law, or discretionary).

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2.4 ABBREVIATIONS

Abbreviation	Description
ABB	Asea Brown Boveri
CIDB	Construction Industry Development Board
CRFWT	Central Reserve Feed Water Tanks
CV	Curriculum Vitae
DCS	Distributed Control System
ECSA	Engineering Council of South Africa
N3	National Technical Certificate
OEM	Original Equipment Manufacturer
PO	Purchase Order
QCP	Quality Control Plan
RFWT	Reserve Feed Water Tanks
SAQA	South African Qualifications Authority
SOC Ltd.	State Owned Company Limited
TET	Technical Evaluation Team
UFMS	Ultrasonic Flow Measurement System

2.5 PROCESS FOR MONITORING

N/A

2.6 RELATED/SUPPORTING DOCUMENTS

[1] AECI 0129 – Scope of Work, RFWT Balance Main Flow Meter Installation Project.

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 80%.

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Sibusiso Hlatshwayo	C&I System Engineer
TET 2	Thapelo Theledi	C&I Engineering Manager
TET3	Wayne Mahlare	C&I System Engineer

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3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Non-invasive clamp-on ultrasonic Flowmeter	Submit a data sheet of the proposed flowmeter to be installed rated at a minimum rating of IP67. Flowmeter Type Datasheets, OEM specifications for non-invasive clamp-on ultrasonic IP67+ meters supporting reverse & forward flow.	This is to ensure that the bidder submits a proposal based on the required technology as per the works Information. This is the only type of flowmeter
2.	ABB OEM Letter, ABB Letter of Intent or ABB Sales Channel Partner Letter (OEM Support Letter for Works to be conducted on the ABB DCS)	If the Bidder is ABB, the DCS OEM, submit an OEM letter, OR Submit a signed agreement or letter of intent from ABB for all DCS integration work if the bidder intends to collaborate with the OEM, OR If bidder is an ABB Channel Partner, submit a valid ABB OEM Sales Channel Partner letter which stipulates full support of ABB for works to be conducted on ABB P14 Pro-control and Melody DCS which should meet the following requirements. <ul style="list-style-type: none"> • The letter shall not be older than 3 months. • The letter shall also be verifiable with the ABB. 	This is to ensure reliable, authentic and quality work is conducted on the ABB DCS. This is also critical in ensuring that works are conducted with in the OEM specifications for durability and performance, which is essential in preventing premature failures. It will also ensure that the contractor can buy additional equipment or licences from ABB should they be required for all DCS integration work.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

Score	(%)	Definition
5	100	COMPLIANT <ul style="list-style-type: none"> • Meet technical requirement(s) AND; • No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with; <ul style="list-style-type: none"> • Acceptable technical risk(s) AND/OR; • Acceptable exceptions AND/OR; • Acceptable conditions.
2	40	NON-COMPLIANT <ul style="list-style-type: none"> • Does not meet technical requirement(s) AND/OR; • Unacceptable technical risk(s) AND/OR; • Unacceptable exceptions AND/OR; • Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE
Note 1: The scoring table does not allow for scoring of 1 and 3. Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.		

	Qualitative Technical Criteria Description		Tender Returnable	Reference to Scope of Work	Criteria Weighting (%)	Score	Criteria Sub Weighting (%)
1.	Technical Experience				10	0,2,4,5	
	1.1	Technical experience for similar project work conducted as per Scope of Works	Three references of previously completed works at Eskom SOC Ltd coal fired power stations or similar coal fired power stations in the design, engineering, procurement, manufacturing, factory acceptance testing, offloading on site, storage, installation and commissioning of a UFMS in the last 5 years.			0= Totally Deficient or Non- responsive 2= One completion certificate submitted 4= Two different completion certificates submitted 5= Three different completion certificates submitted	30
	1.2	Integration Experience	Reference projects and completion certificates demonstrating ABB integration experience.	Section 2.7.2		0 =No Reference projects and completion certificate submitted 5= Reference projects and completion certificates	70
2.	Technical Compliance				20		
	2.1	Measurement Accuracy	Flowmeter OEM test reports or datasheet proving $\leq \pm 1\%$ accuracy under site conditions.	Section 2.4		0= Totally Deficient or Non- responsive 2= OEM test reports or datasheet proving $>2\%$ accuracy submitted 4= OEM test reports or datasheet proving $\leq \pm 2\%$ accuracy submitted 5= OEM test reports or datasheet proving $\leq \pm 1\%$ accuracy submitted	35
	2.2	Pipe Compatibility	Design verification documents proving suitability for 222mm Ø,	Section 2.5 .6		0 =Totally Deficient / Non-Responsive 2=Partially Compliant, Basic design verification documents submitted, but	25

			5.4mm carbon steel pipes with Demin water.			<p>pipe diameter or wall thickness not fully addressed, or material compatibility with Demin water not verified.</p> <p>4=Moderately Compliant, Design verification documents submitted showing partial compliance; pipe diameter and material suitability verified, but wall thickness or Demin water compatibility lacks supporting evidence.</p> <p>5=Fully Compliant, Complete design verification documents submitted, demonstrating full suitability for 222 mm Ø, 5.4 mm wall thickness carbon steel pipes carrying Demin water, supported by engineering calculations or OEM specifications.</p>	
	2.3	Standards Compliance	Compliance statement confirming adherence to all standards as per the Scope of Work.	All Sections		<p>0= Totally Deficient / Non-Responsive</p> <p>5= Compliance Statement confirming adherence to all standards Provided.</p>	15
	2.4	Critical Spares & OEM Support	Spares list and OEM support letter guaranteeing availability and long-term support.	Section 2.12.3		<p>0= Totally Deficient / Non-Responsive, no spares list or OEM support letter submitted.</p> <p>2=Partially Compliant, Basic spares list provided, but no OEM support letter confirming availability or long-term support.</p> <p>4=Moderately Compliant, Spares list provided, and OEM letter included, but information is incomplete, limited details on availability or no explicit confirmation of long-term support.</p>	25

						5=Fully Compliant – Comprehensive spares list submitted, including part numbers, lead times, and recommended quantities, and an OEM support letter guaranteeing both availability and long-term support for the equipment.	
3.	Design & Engineering Capability				30		
	3.1	Detailed Design Methodology	Preliminary design report showing sizing, hydraulic assessment, and installation layout.	Section 2.4.3		<p>0=Totally Deficient / Non-Responsive, no preliminary design report submitted, or report is irrelevant to the UFMS scope.</p> <p>2=Partially Compliant, Preliminary design report submitted but incomplete, missing key elements such as hydraulic assessment, sizing details, or installation layout.</p> <p>4=Moderately Compliant – Preliminary design report submitted with most sections covered, but one area (e.g., hydraulic assessment, equipment sizing, or layout) lacks sufficient technical detail or supporting calculations.</p> <p>5=Fully Compliant, Comprehensive preliminary design report submitted, including accurate flowmeter sizing, detailed hydraulic assessment with supporting calculations, and complete installation layout drawings aligned with the UFMS requirements.</p>	25
	3.2	Cable Routing & Earthing Philosophy	Draft design drawings covering the complete installation scope, including cable routing, termination, and earthing and	Section 2.10		<p>0=Totally Deficient / Non-Responsive, no draft design drawings submitted, or drawings are irrelevant to the UFMS installation scope.</p>	15

			lightning protection philosophy and associated drawings.			<p>2=Partially Compliant, Draft design drawings submitted but incomplete, missing key elements such as cable routing, termination details, or basic earthing and lightning protection philosophy.</p> <p>4=Moderately Compliant, Draft design drawings provided, showing cable routing, termination, and partial earthing details, but limited coverage of lightning protection or insufficient supporting calculations/drawings.</p> <p>5=Fully Compliant, Comprehensive draft design drawings submitted covering the entire installation scope, including cable routing, termination, earthing, and detailed lightning protection philosophy with associated drawings, fully aligned with UFMS requirements and Eskom standards.</p>	
	3.3	Interface Drawing	Submission of the Arnot UFMS configuration diagram, illustrating the ultrasonic flowmeters, junction boxes, cabling, power supplies, interface to the 220V UPS, integration with the ABB P14 and ABB Melody DCS systems, and showing all associated networks and main functional components, including the HMI, and power supply distribution.	Section 2		<p>0=Totally Deficient / Non-Responsive, no configuration diagram submitted, or diagram irrelevant to UFMS requirements.</p> <p>2=Partially Compliant, Configuration diagram submitted but incomplete, missing multiple key elements (e.g., UPS interface, DCS integration, or HMI representation).</p> <p>4=Moderately Compliant, Configuration diagram submitted covering most elements (e.g., flowmeters, junction boxes, cabling, UPS interface, and DCS</p>	45

					<p>integration), but lacking sufficient detail on networks, HMI, or power distribution.</p> <p>5=Fully Compliant, Comprehensive UFMS configuration diagram submitted, illustrating all required components: flowmeters, junction boxes, cabling, power supplies, UPS interface, ABB P14 & Melody DCS integration, networks, HMI, engineering stations, and power supply distribution, fully aligned with the scope of works.</p>	
3.4	220Vac Power Supply Integration	Submission of design documentation detailing the 220 Vac power supply distribution, including connection points, sizing, and protection measures for the UFMS equipment, as well as the interface with the UPS.	Section 2.8	<p>0=Totally Deficient / Non-Responsive, no design documentation submitted, or submitted documents are irrelevant to the 220 Vac power supply distribution.</p> <p>2=Partially Compliant, Basic design documentation submitted, but missing one or more key elements such as power connection points, sizing details, protection measures, or UPS interface considerations.</p> <p>4=Moderately Compliant, Design documentation submitted, covering most required elements, but lacking sufficient detail in at least one area (e.g., protection measures, cable sizing calculations, or UPS interface).</p> <p>5=Fully Compliant, Comprehensive design documentation submitted, providing complete details on 220 Vac power distribution, including connection points, cable sizing, circuit protection measures, and full integration with the</p>	10	

						UPS, fully aligned with UFMS and Eskom standards.	
	3.5	ECSA-Registered Engineers	CVs and ECSA registration numbers for proposed engineers.	Section 2.21		0=Non-Compliant, No CVs submitted or none of the proposed engineers have a valid ECSA registration number. 5=Fully Compliant, CVs submitted for proposed engineers and at least one engineer holds a valid ECSA registration number.	5
4.	QA, Testing & Commissioning						10
	4.1	FAT & SAT Procedures	Submission of FAT and SAT plans and high-level procedures, including calibration, communication verification, performance testing, and indicative acceptance criteria.	Section 2.13 and 2.1		0=Totally Deficient / Non-Responsive, no FAT or SAT plans submitted, or documents irrelevant to the UFMS project. 2=Partially Compliant, FAT and SAT plans submitted but incomplete, missing either communication verification details or indicative acceptance criteria. 4=Moderately Compliant, FAT and SAT plans provided, including communication verification, but indicative acceptance criteria lack sufficient detail or clarity. 5=Fully Compliant, Comprehensive FAT and SAT plans and high-level procedures submitted, covering communication verification and indicative acceptance criteria, fully aligned with UFMS requirements and Eskom standards.	50
	4.2	Quality Control Plan & ITP	Submission of QCP and Inspection Test Plans.	Section 2.23		0=Totally Deficient / Non-Responsive, No QCP or ITP submitted, or documents are irrelevant to UFMS quality requirements.	50

						<p>2=Partially Compliant, QCP submitted but ITP missing, or vice versa; limited details provided and does not fully demonstrate quality control measures for UFMS works.</p> <p>4=Moderately Compliant – Both QCP and ITP submitted but lack sufficient detail, such as inspection points, test acceptance criteria, or traceability to UFMS specifications.</p> <p>5=Fully Compliant, Comprehensive QCP and ITP submitted, detailing inspection stages, test procedures, acceptance criteria, responsibilities, and traceability to UFMS specifications and Eskom quality standards.</p>	
5.	Training & Documentation				10		
	5.1	Training Programme	Draft training programme outline covering both basic and advanced UFMS competencies.	Section 2.15		<p>0=Totally Deficient / Non-Responsive, no draft training programme submitted, or submission is irrelevant to UFMS training requirements.</p> <p>2=Partially Compliant, Training programme submitted but incomplete; covers only basic UFMS competencies or lacks clear structure and learning objectives.</p> <p>4=Moderately Compliant, Draft training programme provided, covering both basic and advanced UFMS competencies, but missing some details such as duration, assessment methods, or practical training components.</p>	30

						5=Fully Compliant, Comprehensive draft training programme submitted, fully covering basic and advanced UFMS competencies, including learning objectives, detailed curriculum, duration, competency assessments, and practical training activities, aligned with project requirements and Eskom standards.	
	5.2	Preventive Maintenance Plan	Draft preventive maintenance plan and spares strategy.	Section 2.12		<p>0=Totally Deficient / Non-Responsive, no preventive maintenance plan or spares strategy submitted, or submission irrelevant to UFMS requirements.</p> <p>2=Partially Compliant, Preventive maintenance plan submitted but incomplete, or spares strategy missing; lacks detail on maintenance intervals, tasks, or critical spares.</p> <p>4=Moderately Compliant, Preventive maintenance plan and spares strategy submitted, covering most required elements but missing important details such as OEM recommendations, lead times, or long-term lifecycle planning.</p> <p>5=Fully Compliant, Comprehensive preventive maintenance plan and spares strategy submitted, clearly outlining maintenance intervals, procedures, responsible parties, critical spares list, recommended stock levels, lead times, and alignment with OEM recommendations.</p>	70
6.	Project Execution Plan						15

6.1	Execution Programme	Project schedule showing milestones for design, Procurement, FAT, SAT, Installation and commissioning. The plan must include long lead items.	Section 2	<p>0=Totally Deficient / Non-Responsive, no project schedule submitted, or schedule is irrelevant to UFMS requirements.</p> <p>2=Partially Compliant – Project schedule submitted but incomplete; missing key phases (e.g., FAT, SAT, or commissioning) and does not reference long-lead item procurement timelines.</p> <p>4=Moderately Compliant, Project schedule provided, covering design, procurement, FAT, SAT, installation, and commissioning, but long-lead items are not clearly identified or integrated into the timeline.</p> <p>5=Fully Compliant – Comprehensive, well-structured project schedule submitted, clearly showing all milestones (design, procurement, FAT, SAT, installation, and commissioning) and explicitly identifying and integrating long-lead item timelines to ensure alignment with overall project delivery requirements.</p>	40
6.2	Resource Plan	CVs and resource plan including engineers, technicians, and SHEQ officers	Section 2	<p>0=Totally Deficient / Non-Responsive, No CVs or resource plan submitted, or documents irrelevant to the UFMS project.</p> <p>2=Partially Compliant, Resource plan submitted but incomplete; missing CVs for key personnel or lacking traceable reference contacts to verify experience.</p> <p>4=Moderately Compliant, CVs and resource plan submitted for most roles,</p>	10

					<p>including engineers, technicians, and SHEQ officers, but references are incomplete, outdated, or insufficient to validate the claimed experience.</p> <p>5=Fully Compliant, Comprehensive resource plan submitted, including CVs for all key personnel (engineers, technicians, and SHEQ officers), with clear details on roles, responsibilities, qualifications, relevant experience, and at least one traceable reference per CV (name, designation, organization, and contact details).</p>	
6.3	Installation Method Statements	Submission of a detailed installation method statement covering the complete scope of works, including sensor and transducer mounting, cable routing and termination, UPS power integration, junction box installation, earthing, signal testing, commissioning sequence, and full ABB DCS integration.	Section 2	<p>0=Totally Deficient / Non-Responsive, no installation method statement submitted, or submission irrelevant to the UFMS project scope.</p> <p>2=Partially Compliant, Installation method statement submitted but incomplete, missing several critical elements such as UPS power integration, commissioning sequence, or ABB DCS integration.</p> <p>4=Moderately Compliant, Installation method statement submitted, covering most activities including sensor mounting, cable routing, and termination, but lacks sufficient detail on one or two areas such as earthing, junction box installation, signal testing, or ABB DCS integration.</p> <p>5=Fully Compliant, Comprehensive and well-structured installation method</p>	50	

						statement submitted, clearly detailing the entire scope of works, including sensor and transducer mounting, cable routing and termination, UPS integration, junction box installation, earthing, signal testing, commissioning sequence, and complete ABB DCS integration, aligned with UFMS and Eskom standards.	
7.	List of Exclusions				5		
	7.1		Submit a list of all excluded works, deliverables, or services. Where there are no exclusions, provide a formal declaration confirming that no exclusions apply.	All Sections		<p>0=Totally Deficient / Non-Responsive, neither an exclusions list nor a formal declaration is submitted.</p> <p>2=Partially Compliant, Exclusions list submitted but incomplete, vague, or missing justifications; and no signed declaration provided.</p> <p>4=Moderately Compliant, One of the two required submissions provided: either a clear exclusions list or a formal “no exclusions” declaration, but not both.</p> <p>5=Fully Compliant, Complete submission provided: a detailed exclusions list (if applicable) with clear justifications and, where there are no exclusions, a signed declaration on the bidder’s letterhead confirming that no exclusions apply.</p>	100
					TOTAL: 100		

3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
1	X	X	X
2	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3
1	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X
5	X	X	X
6	X	X	X
7	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	Failure to provide spares lists and quotes.

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Nonadherence to Eskom Standards provided herein.
2.	Failure to partner with ABB as a Sales Channel Partner to conduct works on the ABB P14 Pro-control.

3.6.2 Exceptions / Conditions



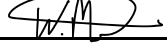
Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Professional Technologist is utilized and not Professional Engineer as deemed by ECSA

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Failure to meet plant performance requirements in terms of reliability, availability and efficiency.

4. AUTHORISATION

Name	Designation	Signature
Sibusiso Hlatshwayo	C&I System Engineer	
Thapelo Theledi	C&I Engineering Manager	
Wayne Mahlare	C&I System Engineer	

5. REVISIONS

Date	Rev.	Compiler	Remarks
September 2025	01	SP Hlatshwayo	First Issue
April 2026	02	SP Hlatshwayo	<ul style="list-style-type: none"> - Changes to the criterion scoring as advised by the Generation Chairperson Governance were executed. - Addition of the Qualitative Technical Evaluation Criteria Table extracted from the Generation Technical Evaluation Procedure - Addition of a third TET member.

6. DEVELOPMENT TEAM

The following people were involved in the development of this document:

- Sibusiso Hlatshwayo
- Thapelo Theledi
- Wayne Mahlare

7. ACKNOWLEDGEMENTS

- Sibusiso Hlatshwayo
- Thapelo Theledi
- Wayne Mahlare

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