

**ANNEXURE A – SCOPE OF WORKS**

Document Reference	Title	Number Of Pages
	<p><b>SCOPE OF WORK FOR SUPPLY OF ETAP SOFTWARE LICENSE FOR TRANSNET SOC LTD (REG. NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED TO AS "TPT") VALID FOR A PERIOD OF THREE (3) YEARS.</b></p>	<p><b>6</b></p>
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**TRANSNET SOC LTD**

**ENQUIRY/CONTRACT NUMBER: TPT/2026/05/0002/114424/RFP - iCLM HQ 952/TPT**

**SCOPE OF WORK FOR SUPPLY OF ETAP SOFTWARE LICENSE FOR TRANSNET SOC LTD (REG. NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED TO AS "TPT").**

## **1. INTRODUCTION**

TPT requests proposals from suitable and accredited Service Providers to provide ETAP software licenses.

## 2. BACKGROUND

ETAP is a software for electrical power systems modelling and simulation, optimizing customer electricity power systems from design and engineering to operations and maintenance.

ETAP delivers best-in-class, seamless customer experience and ensuring universal and Modern accessibility for designers, engineers, and operators empowering users to increase productivity, collaboration, and efficiency, and enabling the energy transition journey.

TPT is standardising on the ETAP software for modelling and simulations of all terminals.

## 3. PURPOSE

Request for the supply of ETAP software.

## 4. SCOPE OF WORK

4.1 The service provider shall in collaboration with the employer's ICT department ensure that the software, with all modules, is functional.

4.2 The service provider shall arrange for training on all modules for four employer's personnel. The training shall be a formal training for users.

4.3 Details of software licence:

- The service provider shall provide quotes for a new network (LAN) licence and a separate quote for a new standalone licence that is with standard support for a duration of 1 to 3 years.
- The quote for a standalone licence will be prioritised for all bidders, only in a case where a standalone licence is discontinued or not available from ETAP will quotes for a network licence be considered. This is to say, the preferred form of offer that will be considered first is the standalone licence.
- The support for a stand-alone licence must come with an option for the employer to extend the support annually.
- The bus level shall be **unlimited buses**.



**5. SPECIFIC DELIVERABLES FOR THE SUPPLY of ETAP SOFTWARE LICENSES**

The most recent version of ETAP software shall be supplied with the modules and specifications listed below:

Item Description		Maintenance Term	Licence Metrics	Quantity
ETAP New License – 1 Single Commercial SA, unlimited Bus:		In line with the standard offer.	Fixed/Stand alone, a network offer shall be provided and will be considered if and only if a fixed or standalone licence offer is not available.	1
Base Module	Multi-Dimension Digital-Twin Platform, Revisions, Libraries, Wizards			
IEEE, ICEA, NEC	Cable Ampacity & Sizing - IEEE, ICEA, NEC			
IEC 60502 & 60364	Cable Capacity, Sizing & Shock Protection - IEC 60502 & IEC 60364			
Load Flow, AC	Power Flow, 3-Phase & 1-Phase Systems, Voltage Drop, Result Analyzer			
Panel Schedule	Schedules, Calculations, 3-			

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	Phase, 1-Phase, NEC, IEC			
Renewables	Wind Turbine Generator, PV Array - PV Pro, Controls, Libraries, Profiles			
HVDC	Control Schemes, Dynamic Modes, Rectification, Inversion			
Short Circuit, AC	ANSI & IEC, Balanced 3-Phase & 1-Phase, Duty Evaluation, Analyzer			
Arc Flash, AC	IEEE 1584 2018 & NFPA 70E 2021 - Analyzer, Work Permit, Safety Labels			
Star	Protection, Selectivity, Sequence of Operation, Protective Devices			
Star Auto-Eval	Auto-Evaluation of Protection, Selectivity, Zone, Arc Flash*			

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Harmonics	Harmonic Load Flow, Frequency Scan, Harmonic Filters & Sizing			
Ground Grid	3D Ground Grid Systems, IEEE 80 & 665, Finite Element (Irregular Grids)			
Cable UG Thermal	UG Raceways, Direct Buried, Neher-McGrath, IEC 60287			
Load Flow, DC	Voltage Drop, Power Losses, Reports, IEEE 946			
Battery Sizing	Battery Discharge & Sizing, IEEE 308, 485, 946, Integrated with Control Simulator			

The Service Provider is required to provide the following as part of the deliverables:

1. Provide the ETAP licence software inclusive of all design modules.
2. Installation and testing of all modules.
3. Technical and backup support for the period of licencing or as a standard offer for the licence.
4. Accredited/ETAP approved formal training on all modules for four users.