TRANSNET NATIONAL PORTS AUTHORITY

an Operating Division of **TRANSNET SOC LTD**

[hereinafter referred to as **Transnet]** [Registration No. 1990/000900/30]

REQUEST FOR PROPOSAL [RFP]

SUPPLY AND INSTALLATION OF SMART WATER AND ELECTRICITY METERS WITH A SOFTWARE SOLUTION (UTILITIES MANAGEMENT) ACROSS THE EIGHT PORTS

RFP NUMBER:	**TNPA/2025/02/0002/89478/RFP**
ISSUE DATE:	**30 July 2026**
COMPULSORY BRIEFING SESSION:	**31 July 2026 @10H00**
CLOSING DATE:	**28 September 2026**
CLOSING TIME:	**16H00**
BID VALIDITY PERIOD:	**12 WEEKS FROM CLOSING DATE**

Questions and Responses 2:

No.	Bidders Questions	TNPA Responses
1.	**Resources**	
1.1	Just to clarify, only three different installation teams are required for the different regions? And no duplications of names for those specific roles within that specific team.	For the purpose of having work to run concurrently in all three regions, the contractor is therefore required to have three separate installation teams (Please refer to the Works Information and comply with the requirement).
1.2	Can the same supervisory personnel be used for all sites.	No, each site is expected to have supervisory personnel as per the Contract Data.
2.	**Accessibility**	
2.1	Would it be possible to access the Port of Durban and see the recently installed meters.	Yes, arrangements can be made upon request for Bidders wishing to conduct a site visit in the Port of Durban.
3.	**Eligibility**	
	We are considering submitting a Joint Venture (JV) bid in response to the above-mentioned tender and would appreciate clarification regarding the compulsory clarification meeting attendance requirement. One of the proposed JV members, Broll Property Group, attended the compulsory clarification meeting and is reflected on the attendance register. However, the intended lead JV partner did not attend the meeting.	If one JV partner attended the compulsory briefing session than the JV is eligible to tender, please refer to the extract below from the tender document: " C.2.1 Only those tenderers who satisfy the following eligibility criteria are eligible to submit tenders:

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	Having reviewed the tender documentation, we note that it requires attendance at the compulsory clarification meeting but does not expressly state that all JV members, or specifically the lead JV partner, must attend. Based on this wording, it appears that a JV submission may be permissible where one of the JV partners attended the meeting. To ensure full compliance with the tender requirements, we kindly request written confirmation on whether a JV bid would be considered compliant under these circumstances, namely where: The compulsory clarification meeting was attended by one of the proposed JV members (Broll Property Group); The attending entity is not the intended lead JV partner; and The intended lead JV partner did not attend the compulsory clarification meeting. Your guidance on this matter will be greatly appreciated, as it will assist us in determining our eligibility to proceed with the JV submission. We look forward to your response.	**1. Stage One** **1.1 Eligibility with regards to attendance at the compulsory clarification meeting:** An authorised representative of the tendering entity or a representative of a tendering entity that intends to form a Joint Venture (JV) must attend the compulsory clarification meeting in terms of C2.7.”
4.	**<u>Technical</u>**	
4.1	5.1.5 The Contractor must develop an Application Programming Interface (APIs)to integrate the software with existing systems **including** linking the Utility Management Software to both the Transnet Integrated Port Management System	TNPA’s current technology environment comprises SAP ECC 6, which is currently undergoing migration to SAP S/4HANA 2025, together with the SAP Flexible Real Estate Management solution, SAP Datasphere, SAP

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	(IPMS) and SAP ERP(Enterprise Resource Planning) to transfer billing data (kilo Liters &Rand Value, kilowatts hours &Rand Value)on the 15th of each month. Do we currently have the format files required for the integration between IPMS and SAP ERP?	Process Orchestration (PO), SAP Cloud Connector, the Microsoft .NET-based Integrated Port Management System (IPMS), and Microsoft Azure-based data and IoT platforms. The proposed solution must support industry-standard integration protocols and data exchange formats, including SAP IDoc, XML, JSON, and CSV. Bidders are required to propose an appropriate integration approach and specify their preferred file format(s) for integration with SAP and IPMS. The proposal must also clearly identify any associated middleware, infrastructure, or other technical requirements.
4.2	5.12.1.1 The software solution to be developed shall be able to retrieve water and electricity data from various software and be able to monitor, perform analysis and store TNPA's metering data. Apart from direct meter-based data acquisition for water and electricity, is data retrieval required from other existing platforms? If so, how many systems are involved?	No there isn't. The only requirement is direct acquisition of data from meters.
4.3	5.12.1.3 Electricity and Water Consumption Analysis The software solution shall be capable to perform broad analysis of energy/water data including electricity/water analysis and create comparison tables at port level as well as Operating Division level.	Port level information must feed the Operating division level dashboard. (Refer to Annexure D - Dashboards on the Smart Utilities Management Software)

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	What's relationship between 'port level' and 'Operating Division level'	
4.4	5.12.1.4 Financial Analysis h) Budget Costs i)Tariff configuration (Water & Electricity) i)Tariff Analysis (Water & Electricity) k) Unrecovered Revenue • Is this project based on a postpaid billing model?	Yes, it is based on the postpaid billing model.
	What is the billing method for electricity and water consumption? Simple/flat-rate pricing? Tiered pricing based on consumption brackets? Progressive/block tariff pricing?	Tariff Structure • Water - Simple/flat-rate • Electricity – Time-of-Use (TOU) & Flat-rate
	Will the payment status/results of the bills be synchronized back to UMS to support the business objective of k) Unrecovered Revenue?	No.
4.5	5.12.1.6 Alerts and Reports a) The system shall be configurable to generate automatic energy alarms distributed by email and SMS to the relevant people.	No

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	Are there any active or designated SMS delivery channels available at present?	
4.6	5.12.1.9 Software a) The solution must be able to run on an industry-recognised server platform, for example Microsoft Server 2012 R2(or above) for server or similar. Is the use of Microsoft Windows Server 2012 R2 mandatory? Does the project allow the use of other operating systems, such as CentOS7.9 or later versions?	Transnet is licensed to the Microsoft suite hence the request to utilize the Microsoft product.
4.7	5.12.1.9 Software b) The database used by the solution should be a recognised industry-standard enterprise database, for example Microsoft SQL Server 2012(or above), or similar. ls the use of SQL Server mandatory? Does the project allow the use of other enterprise-grade databases, such as PostgreSQL?	Transnet is licensed to the Microsoft suite hence the request to utilize the Microsoft product.
4.8	5.12.1.10 Geographical Information System (GIS)or Supervisory Control and Data Acquisition (SCADA) The software shall have an integrated Geographical Information System or similar to SCADA for monitoring of the "Field Devices". Is the server capable of accessing external services including Google Maps?	No. The Server should not have access to the internet.

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4.9	Page 661Demo On Page 661 of the *Transnet tender*document, there is a classification split into TNPA Tenants Shipping and ODs. Could you please advise what criteria this classification is based on and provide a detailed explanation?	This is based on our billing system. TNPA is for internal, Tenants/other OD/Shipping is for external billing,
4.10	We note from the tender briefing that the requirement appears to exclude the use of an existing commercially available software solution and instead requires the development and outright purchase of a new solution specifically for Transnet. We would appreciate confirmation that this interpretation is correct and that this is indeed the intended commercial and technical model. We raise this for clarification as an outright purchase and bespoke development model is likely to carry a significantly higher initial cost than a licensing model. Under a licensing model, Transnet would have the benefit of an established solution that has been developed and refined over more than 30 years of operational use, while also benefiting from the efficiencies associated with a commercially available platform. We would also like to clarify the distinction between outright ownership and ongoing maintenance. Even where the software is purchased outright, the solution would still require ongoing technical maintenance, support, security updates, compatibility updates, and potentially further development as requirements evolve. These services would therefore still attract an ongoing maintenance and support fee, irrespective of	Commercially available software solutions – The Tender calls for a Perpetual License. No, the only licensing model solution that will be compliant with the Tender is a Perpetual License model, other licensing models will not be compliant with the tender requirements.

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	whether the underlying software is licensed or purchased outright. We would therefore appreciate confirmation as to whether Transnet specifically requires a bespoke solution with outright ownership, or whether a commercially available solution offered under a licensing model would also be considered compliant with the tender requirements.	
4.11	We kindly request clarification regarding the provision of bulk check meters for electricity. To accurately monitor electricity consumption and identify potential energy losses, the typical arrangement would be to install a bulk meter at the main substation/incomer, together with smart meters measuring the consumption of individual users. The total consumption recorded by the individual user meters can then be reconciled against the bulk meter reading during each billing period. Any significant discrepancy between the bulk meter consumption and the combined consumption of the individual user meters would assist in identifying potential energy losses or other issues requiring investigation. However, upon reviewing the Tender BOQ, Scope, Specification, we note that bulk check meters are provided for water, but we do not see any bulk check meters specified for electricity. Our question is: Could TNPA please confirm whether bulk check meters for electricity are required as part of the scope of works? If so, kindly clarify the required quantities, locations, and technical specifications for these meters, and whether they should be included in the Tenderer's pricing. Kindly provide clarification to enable us to accurately price the required metering	Electricity meters in the Scope and Bill of Quantities (BoQ) are the meters to be priced. Contractors are required to adhere strictly to the Works Information and Bill of Quantities as advertised.

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	infrastructure	
4.12	With reference to the extract of the specification on page 119, we note that the specification provided appears to describe only the requirements for a three-phase meter. Kindly clarify whether the scope requires both single-phase and three-phase meters, or whether the requirement is exclusively for three-phase meters. Should single-phase meters also be required, kindly confirm whether the following specification is correct and aligned with the requirements of the tender: • Frequency: 50 Hz • Accuracy: Class 1 or Class 2 for active energy (kWh) • Voltage: 1 × 240/415 VAC • Current: 20–80 A • Other data: Instantaneous values such as current, voltage, frequency and power factor • Internal clock: Required • Pulse inputs/outputs: Not required due to the nature of single-phase meters • Standards: IEC 62056 • Display: LCD • Footprint: British Standard footprint • Communication: Must support modular TCP/IP Ethernet, PLC, RS485	The specification is applicable to both single-phase and three meters. All meters must be compatible with Wi-Fi, Fibre, Ethernet and GSM/GRPS/LTE connection as required by the Works Information.

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	or GSM/GPRS/4G LTE We would appreciate confirmation of the above to ensure that our interpretation of the specification is correct and that our submission is fully aligned with the requirements. Kindly also advise if there are any additional or alternative technical requirements applicable specifically to the single-phase meters that should be taken into consideration. Your clarification would be highly appreciated"	
4.13	We kindly request clarification regarding the technical specification for the following BOQ item: **"Supply, install and configure a new smart energy meter with all the necessary comms required (communication module, GSM antenna etc.)."** The BOQ item does not specify the exact type or technical requirements of the smart energy meter required. To enable us to obtain accurate pricing from suppliers, kindly provide further details regarding the required meter, including, where applicable: • Meter type and configuration; • Single-phase or three-phase; • Direct-connected or CT-operated; • Voltage and current rating;	Refer to the Works Information clauses 5.13 and 5.14 for Technical Specifications for Water Meters and Electricity Meters respectively.

No.	Bidders Questions	TNPA Responses
	• Accuracy class; and • Any specific communication or technical requirements. Your clarification will assist us in ensuring that we obtain pricing for a meter that fully complies with the Employer's requirements. We would appreciate your urgent assistance in this regard.	
4.14	Following the site walk and going through the information pack and considering that not all meters were visited, is it possible for the client to provide information related to the type of meters i.e. electromatic or ultrasonic.	Refer to the Works Information clauses 5.13 and 5.14 for Technical Specifications for Water Meters and Electricity Meters respectively.
4.15	The briefing states that the Utilities Management System will be hosted on-premises within TNPA infrastructure. Please clarify the intended delineation of responsibility: 1. Is the bidder required to supply, install, and price the server/compute infrastructure (CapEx) on which the UMS will run, or will the UMS be deployed onto existing TNPA datacentre infrastructure (compute, storage, virtualisation) provided by TNPA?	Yes, refer to **Section D – COMMUNICATION** of the Pricing Schedule: • Line 1.10 - "Supply, install and setup the severs", this is for data storage and to host the Utility Management System (UMS). • Line 1.15 - "Supply and install management workstation desktop and link to TNPA corporate network. Setup rules for management workstation and provide dashboards whilst second LAN on machine connects to Transnet Data Network. Management station needs to be on Transnet domain and have relative Transnet Policies applied to it.
	2. Will TNPA provide the network connectivity from the wireless AMR gateways (and fibre network switches) to the TNPA datacentre, or must the bidder provide and price this backhaul as part of the solution?	Refer to **Section D – COMMUNICATION** of the Pricing Schedule: • The Bidder must provide and price the backhaul as part of the solution as laid out in the Works Information and Pricing Schedule.

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	3. Depending on the above, should bidders structure their proposal as (a) a CapEx offer including hardware, or (b) a software licensing, deployment, and support offer against TNPA-provided infrastructure?	The Bidders are required to price the proposal as laid out in the Works Information and Pricing Schedule.
5.	**<u>CIDB B.U.I.L.D</u>**	
5.1	CIDB B.U.I.L.D – BOQ Item 1 The BOQ indicates three (3) subcontractors under Item 1.3(a.3) and 1.1(a.1) • Please confirm whether the three (3) subcontractors are required for the entire contract, per region, or per port. If more than three subcontractors are required to achieve the 30% CPG, may additional qualifying subcontractors be appointed? • Please also confirm the CIDB grading requirement for the subcontractors contributing towards the 30% CPG, and which entities may be included in the CPG, specifically whether this includes EME/QSE subcontractors, software specialists, suppliers, equipment/material suppliers and labour, or whether the CPG is limited to qualifying EME/QSE subcontractors.	• The CPG % is defined as a % of the total project value – therefore the first important criteria is to meet the overall criteria – ie 30%. The Quantity of (3) is given because the work is distributed overall several ports, and this gives the Main contractor the opportunity to hire a different subcontractor in other ports. If the Contractor needs to hire more subcontractors (for other ports) that is acceptable, but payment of BoQ item 1.1 and 1.3 will only be done for three sub-contractors. If the Main Contractor – through the way he has planned the works – requires more subcontractors – those subcontractors will still contribute to the 30%, but if the main contractor needs additional funds – then he must build that into his General Items. A Main Contractor can also achieve the 30% by giving out more work in the larger ports and less to subcontractors in the smaller ports. All sub-contracting of construction works will contribute towards the 30% CPG. • The CIDB prescripts require that work the falls into the definition of construction works, when sub-contracted – shall only be sub-contracted to a CIDB registered sub-contractor in the Grades 1 – 6. The value of the work sub-contracted must also fall within the CIDB

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		grading of the sub-contractor. With respect to CIDB BUILD, there is no other specific restriction relating to CIDB Grade, except that the CIDB BUILD Standard targets "targeted enterprises" which is defined inter alia as: a) A contractor registerd with CIDB in the grades 1 to 6 – acting in the capacity of sub contractor or JV Partner, b) 51% or more black-owned, or b) 35% or more black women owned. (please also see full definition in Government Gazette 54575, dated 24 April 2026) If your sub-contractors are also your JV partners – their grades will contribute towards the overall calculated grade of the tenderer. If they are not JV partners, the sub-contractors' grades will have no effect on the tenderers grade.
5.2	CIDB B.U.I.L.D – BOQ Item 2 • Please confirm whether the greyed-out item means that the tenderer should not price the item, and whether the R270,000.00 Provisional Sum should be carried forward to the tender summary.	Please note that the previously greyed out item (Item 2 – CPG) has been deleted from the BoQ and an addendum has been issued accompanied by the amended BoQ. R270 000,00 should be carried forward to the final tender summary.
5.3	CPG – Local Requirement • Please confirm what constitutes "local" for CPG purposes.	For Contract Participation Goal (CPG) purposes, the term "local" refers to an enterprise that is registered and operates within the Republic of South

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	For example, for the Port of Richards Bay, must the CPG enterprise be based in Richards Bay/uMhlathuze, KwaZulu-Natal, or may an enterprise from anywhere in South Africa be used?	Africa (RSA). However, the tender documentation and scope of works, do not expressly define or clearly stipulate a specific geographical target area for the appointment of CPG enterprises. Therefore, where no geographical restriction has been prescribed, a qualifying CPG enterprise may be sourced from any location within South Africa, provided that it meets all the prescribed eligibility and compliance requirements to CPG. Tenderers are encouraged to consider appointing qualifying local SMMEs operating within the project area or province. This may assist in mitigating potential project implementation risks and delays. Any enterprise appointed must meet all the applicable CPG requirements as stipulated in the tender document.

Signed By :

Name: : Sphelele Ngcobo

Designation : Project Manager

Signature :

Date : 09/ 09/ 2026

Signed By :

Name : Sindisiwe Mweli

Designation : Commodity

Signature :

Date : 09 September 2026