PORT OF NGQURA:

SPECIFICATION FOR THE SUPPLY, DELIVERY, AND INSTALLATION OF INDUSTRIAL SHUTTER DOORS WITH WICKET GATES AT THE PORT OF NGQURA

Prepared by:	**TNPA Port Engineering, Port of Ngqura**
Prepared For:	**TNPA Port of Ngqura**
Author:	**Sindiswa Putuzo**
Project Manager:	**Sindiswa Putuzo**
Project Sponsor:	**Luxolo Dodi**
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1 INVITATION TO SUBMIT A QUOTATION

1.1 Contractors are hereby invited to submit bids for the supply and installation of roller shutter doors as specified in this document at Joorst Park at the Port of Ngqura for Transnet National Ports Authority.

1.2 Bidders shall have a minimum CIDB grading of 1 EB and 1 ME to be eligible for this tender.

2 COMPULSORY PRE-QUOTE SITE MEETING

2.1 A compulsory site meeting must be attended by all potential Bidders before they submit a quotation for this project as part of the procurement process. The purpose of the meeting is to allow Bidders to visit the project site to get a firsthand understanding of the site conditions, existing infrastructure, and any specific requirements related to the project.

2.2 Measurements provided may be physically verified by the Contractor on site during the compulsory site meeting.

3 SCOPE OF WORKS

The scope of work includes, but not limited to the following:

3.1 Supply, delivery and installation of electric industrial roller shutter doors with wickets gates.

Figure 1

Dimensions for **Opening A**
Width = 3.9m
Height = 3.4m

Dimensions for **Opening B**
Width = 4.0m
Height = 4.3m

STRUCTURAL

3.1.1 Installation of Universal I-beam (203 x 133 x 30) steel frame structure where the industrial shutter door will be installed.

3.1.2 Roller shutter door frame and related components must be made of stainless steel.

3.1.3 All sheeting shall be made of aluminium material with corrosion-resistant coating.

3.1.4 Customizable sizes to fit specific openings **(see figure 1).**

3.1.5 The roller shutter door shall have a heavy-duty water-resistant seal made from rubber or similar material to prevent water.

3.1.6 The industrial shutter doors must be equipped with a powerful electric motor, capable of quick and efficient opening and closing:

Specification:

Item	**Description**
Voltage	220V AC (Supply Voltage), 24V DC (motor drive)
Motor output	0.45kW
Speed	±8 Rpm (at supplied drive ratio)
Duty cycle	< 5 operations / Hr (Dependent on door size)
Output torque	Dependent on Drive Ratio
Motor protection	Thermal Cut-out

3.1.7 A manual crank or chain mechanism should be provided as a backup for power outages or maintenance situations.

3.1.8 Designed to withstand high wind loads common in coastal areas. Wind locks or windresistant profiles must be integrated into the design to enhance stability.

ELECTRICAL

3.1.9 Electric Control: Wall-mounted push buttons for convenient electric operation.

3.1.10 The roller shutter doors to be automated by motor and ensure that the roll-up doors have limit switches in close and open positions.

3.1.11 Contractor to ensure all doors are fully functional and operational in a safe working condition.

3.1.12 This specification covers the requirements for the supply, installation, testing and commissioning of Low Voltage distribution Box cable to supply the storage shed and install:

Item	**Description**
Distribution Box	Constructed with a stainless-steel enclosure to ensure durability and resistance to corrosion and rust. Rated IP65 for protection against dust and water ingress.
Main Switch, Circuit Breakers & Protection Devices	The system must include the following: – Main isolator switch – Industrial-grade circuit breakers: • Three-phase: 60A, 400V • Single-phase: 20A, 220V (for circuits including 250W LED lights) – Earth leakage protection device – Surge arresters for lightning protection
Cabling	All electrical cables must be properly enclosed in UV-stable conduits and sealed to ensure protection and compliance with safety standards.
Lighting	4 × 250W LED floodlights for area illumination.

plugs	6 industrial 3 phase (400V) and 6 normal plugs(220V)
Plug Points	6 × industrial three-phase plugs (400V) 6 × standard single-phase plugs (220V)

3.1.13 Three- and single-phase socket outlets shall be installed in the storage area.

3.1.14 The Contractor to provide roll-up operator/controller for the doors. Controller to have stop, open, close operation.

3.1.15 The Contractor shall provide all materials, equipment, labour, and services necessary for the complete installations in accordance with the intent of the specification. All equipment and material comply with the requirements and standards as described in this document.

3.1.16 The Contractor shall install Pratley Enviro-type cable glands, which are specifically suited for corrosive environments.

3.1.17 The garage door motor shall be fed from the distribution board (DB).

3.1.18 The garage door motor shall be supplied using Steel Wire Armoured (SWA) cable with an Earth Continuity Conductor (ECC).

3.1.19 The Contractor shall calculate the correct cable size, circuit breaker and the voltage drop as per SANS 10142 Part-1.

3.1.20 The Contractor shall be responsible for numbering, marking of all cables and wiring.

3.1.21 The Contractor shall be responsible for the complete installation; on completion a Certificate of Compliance (COC) shall be provided according to SANS 10142 Part-1.

3.1.22 The lights and socket outlets shall be supplied from the distribution board.

3.1.23 All wiring/cabling shall be contained in trunking/conduit.

3.1.24 Only trained personnel shall carry out low voltage joints and terminations.

3.1.25 Joints and terminations shall be completed as per manufacturer's recommended procedure.

3.1.26 All enclosures exposed to weather conditions shall be rated at a minimum of Ingress Protection (IP65) to ensure protection against dust and water ingress

RELEVANT SANS STANDARDS

- SANS 474 (Latest): Code of practice for electricity metering.
- SANS 10111 (Latest): Engineering drawing.
- SANS 10142 (Latest): The wiring of premises.
- SANS 60529 (Latest): Enclosures for Electrical Equipment Classified by IP Code • NRS 048 (Latest): Electricity supply – Quality of supply

COMPLETION, TESTING, COMMISSIONING AND CORRECTION OF DEFECTS

The works shall be completed as per the agreed upon timelines:

- On or before the completion date the Contractor shall have done everything required to provide the works including the work listed as per the scope of works which is to be done before the completion date and in any case before the agreed upon timelines. For commissioning, the Contractor shall be required to do a commissioning test on site.
- The Project Manager cannot certify completion until all the work listed on the scope of work has been done and is also free of defects, which would have, in his/her opinion, prevented the Project Manager from using the works and others from doing their work.
- All remedial work regarding the closing of holes and making right any areas affected by the works will be done by the Contractor and approved by the Civil Supervisor before signoff for the works.

TAKE OVER PROCEDURES

- The Contractor shall ensure that only after he/she has tested the installation and deemed it safe and issued a certificate of compliance in the presence of the TNPA electrical Personnel then only take over will happen for the work in this scope. The contractor shall supply certificate of compliance.

4 LOCATION

4.1 The port is accessible from Gqeberha via the N2 national. Once in the vicinity of the port, follow local road signs that guide you to the Port of Ngqura.

Port Adress: Transnet National Ports Authority, Neptune Road, Port of Ngqura, 6100

4.2 The location of the work within the port is as follows:
Joorst Park Shed, Klup Road, Port of Ngqura.

5 CONDITIONS OF CONTRACT

5.1 PROJECT MANAGER

5.1.1 The TNPA Project Manager will be the Transnet point of contact for any administrative, payment, or managerial matters related to this tender.

5.1.2 The name and contact details of the Project Manager will be made available to the Contractor upon award of this tender.

5.2 DURATION OF CONTRACT

5.3 The duration of the contract to be agreed upon timelines or until the Purchase Order is depleted.

5.4 The contract duration encompasses the necessary time for procuring materials, labour, and any other associated lead team items.

5.4.1 The contract duration starts when the purchase order has been issued to the Contractor.

5.4.2 The schedule for the works and the agreed-upon completion date will be deliberated and formalized in writing between the Contractor and the TNPA Project Manager. It's important to note that the works' completion date is independent of the Purchase Order expiry date, which is conventionally set for a default period of 6 months to a year.

5.4.3 If the Contractor foresees potential delays that could extend the works completion beyond the agreed-upon date, the Contractor must immediately notify the TNPA Project Manager. This ensures timely implementation of measures to mitigate the delay and notification of pertinent stakeholders involved in the project.

5.4.4 In the event of anticipated delays that could extend the completion of the work beyond the Purchase Order expiry date, the Contractor must immediately communicate this to the Project Manager to allow the Project Manager to seek the necessary approvals for amending the Purchase Order Expiry date, if merited to do so.

5.4.5 Under no circumstances may the work continue if the Purchase Order has expired, as the Contractor will not be able to be paid beyond this date.

5.4.6 To facilitate the continuation of work after the expiry of the Purchase Order, official approval for extending the expiry date must be submitted and secured by the Project Manager from the Supply Chain Management department. The Contractor is responsible for ensuring strict adherence to this protocol before proceeding with any work beyond the initial expiry date.

5.4.7 The contract duration starts when the purchase order has been issued to the Contractor.

5.4.8 The schedule for the works and the agreed-upon completion date will be deliberated and formalized in writing between the Contractor and the TNPA Project Manager. It's important to note that the works' completion date is independent of the Purchase Order expiry date, which is conventionally set for a default period of 6 months to a year.

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5.4.10 In the event of anticipated delays that could extend the completion of the work beyond the Purchase Order expiry date, the Contractor must immediately communicate this to the Project Manager to allow the Project Manager to seek the necessary approvals for amending the Purchase Order Expiry date, if merited to do so.

5.5 DEFECTS LIABILITY PERIOD

5.6 The Defects Liability Period serves to ensure the contractor delivers work of high quality and in adherence to agreed-upon specifications. Simultaneously, it functions as a guarantee or warranty for TNPA, providing assurance that the contractor is committed

to promptly addressing and rectifying any deficiencies that may surface shortly after project completion.

5.7 On completion of the Project, a 12-month Defects liability period shall apply on the workmanship.

5.7.1 During this period, the contractor is obligated to rectify any defects, faults, or issues in workmanship or materials that become apparent after the project's completion.

5.8 GENERAL

5.8.1 At the commencement of each day and prior to initiating any work, the Contractor is required to inform the TNPA Project Manager of their intention to enter the port.

5.8.2 Work within the port premises by any Contractor is strictly prohibited unless the relevant TNPA Project Manager has been informed and is aware of the activities taking place.

6 TNPA SHE REQUIREMENTS

6.1 Following the tender award, the successful Contractor is required to compile a safety file in strict accordance with the stipulations outlined in the Contractor Compliance File Assessment Checklist (provided below).

6.2 The Contractor is responsible for diligently completing the Contractor Compliance File Assessment Checklist and submit it for approval to the representative of the TNPA Port of Ngqura SHE Department.

6.3 Upon approval of the Contractor Compliance File Assessment Checklist, the Contractor will be issued a Cite Access Certificate.

6.4 The Contractor must at all times have their Cite Access Certificate with them on-site, serving as authorisation for their work. Given the stringent security measures at the port, Contractors lacking a valid Cite Access Certificate may be instructed to vacate the port premises.

6.5 Subsequent to the issuance of the Cite Access Certificate, all employees of the Contractor must undergo induction by the TNPA SHE Department before commencing any work.

6.6 The Contractor Compliance File Assessment Checklist is provided below for reference. A dedicated copy of this checklist will be furnished to the Contractor to facilitate straightforward completion and submission post-tender award.

CONTRACTOR COMPLIANCE FILE ASSESSMENT CHECKLIST

Date of inspection/ Evaluation: _____

Client	
Employer (Principal contractor)	
Registered name of the enterprise	
Trade name of the Enterprise	
Company Registration No	
SARS registration No(PAYE)	
UIF registration No	
COIDA registration no	
Relevant SETA for EEA purpose	
Industry sector	
Bargaining Council	
Contact person & position	

Contact number	
Site Address	
Postal Address	
Chief Executive Officer	
Chief Executive officer's email and contact number	
Construction Manager	
Health and Safety Representative	
Activities/ Service rendered	
Commencement date	
Completion date	
Site Phone	
Total number of employees on site:	
Female	
Male	
People with disabilities	

7 BILL OF QUANTITIES

This bill of quantities shall be read in conjunction with this specification and the request for quotation (RFQ) clauses. All plant, equipment, labour, overheads, etc., costs shall be included in the rates.

ITEM NO.	DESCRIPTION	Unit	QTY	Rate	Total Amount
7.1	**PRELIMINARY AND GENERAL**				
7.1.1	Preliminary and General (provide detail)	Sum	1		
7.1.2	Contractor Compliance File Assessment Checklist (Safety File) in clause 6.6	Sum	1		
7.2	**STRUCTURAL**				
7.2.1	Installation of Universal I-beam (203 x 133 x 30) steel frame for **opening A** see clause 3.1.1	Each	1		

7.2.2	Installation of industrial roller shutter door for **opening A** with wicket gate With all relevant components as specified in clause 3.	Each	1		
7.2.3	Installation of Universal I-beam (203 x 133 x 30) steel frame **opening B** see clause 3.1.1	Each	1		

ITEM NO.	**DESCRIPTION**	**Unit**	**QTY**	**Rate**	**Total Amount**
7.2.4	Installation of industrial roller shutter door for **opening B** with wicket gate With all relevant components as specified in clause 3.	Each	1		
7.3	**ELECTRICAL**				
7.3.1	Supply and install wall-mounted push buttons or key switch as per clause 3.1.9	Sum	1		

7.3.2	Supply and install 6 × industrial three-phase plugs (400V) 6 × standard single-phase plugs (220V), see table on clause 3	Sum	1		
7.3.3	Supply and install Garage door motor, see clause 3	Each	2		
7.3.4	Supply and install Motor control circuit, see clause 3	Each	2		
7.3.5	Supply and install 250W LED lights, see clause 3	Each	4		
7.3.6	All accessories, i.e. glands, adaptors etc, see clause 3	Sum	1		
ITEM NO.	**DESCRIPTION**	**Unit**	**QTY**	**Rate**	**Total Amount**
7.3.7	Test all systems/ equipment and provide compliance reports such as Certificate of Compliance.	Sum	1		

7.4	**Sub-total**				
7.5	**Add 15% VAT**				
7.6	**TOTAL**				