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**PORT OF NGQURA:  
SERVICE / MAINTAIN, MAIN ENGINE TURBINE  
POWERED-STARTER MOTORS FOR THE  
TUGBOAT FLEET, FIVE YEARS (5) YEAR  
TERM**

For: **TNPA Port of Ngqura**

Prepared by: **TNPA Marine Department, Port of Ngqura**

## 1. INVITATION TO SUBMIT A QUOTATION

- 1.1. Tenderers are hereby invited to tender on the maintenance of existing ST799-series Turbine Powered starter motors and for the supply of replacement spares and/or new starter motors, and installation of new or serviced starter motors, testing and reporting on work completed, defects found and proposals to eliminate possible defects in future.
- 1.2. Only tenderers who:
  - 1.2.1 have method statement,
  - 1.2.2 have experience in similar work,
  - 1.2.3 are registered with Central Supplier Database (CSD),are eligible to submit quotations.

## 2. Pre-Qualification

- 2.1. Submit OEM's signed letter in OEM's company letterhead confirming partnership, that the suppliers an OEM approved service agent and can supply OEM's approved spares.

**NB: O.E.M- ORIGINAL EQUIPMENT MANUFACTURER.**

## 3. SCOPE OF WORKS AND GENERIC CONDITIONS OF CONTRACT

### 3.1. BACKGROUND AND PURPOSE

Transnet National Ports Authority (TNPA), Port of Ngqura (PoN) tug-boat fleet are equipped with ST799 Turbine Powered starter motors (left & right-hand drives).

TNPA's objective is to source a Service Provider to:

1. Supply spares for the ST799 starter motors, as and when requested.
2. Maintain the ST799 starter motors as recommended by the Original Equipment Manufacturer (OEM)
  - a. 6 Monthly, Annually & 18 Monthly
  - b. ad-hoc repairs
  - c. replacement of starter motors
3. Provide written report/s to TNPA after each service.
4. Removal, refitting and on-board testing of serviced/repaired/new starter motors.
5. Call outs and standby in the event of breakdowns.
6. Supply, fit test, RR-150-F30 valve assemblies and or spare parts.

### 3.2. SCOPE OF WORKS

The scope of works comprises of the following:

- To maintain/service the ST799 starter motors in accordance with the OEM Manual.

- **6 MONTHLY:**
  - Collect/Courier Starter Motor/s to service provider workshop.
  - Minor Service of Starter Motor/s in service provider's workshop.
  - Test Starter Motor/s in service provider's workshop.
  - Courier/Deliver Starter Motor/s to Marine Department, PoN.
  - Report on findings and submit recommendations.

MONTHS	STARTS (QTY)	COMPONENTS	ACTION
6 MONTHS	500	C3 TURBINE OIL	CHANGE
	500	ALL EXTERNAL CAP SCREWS	CHECK TORQUE
	500	STRAINER	CHECK ELEMENT
	-----	TRANSPORT FROM/TO SITE	-----

**Table 1: 6 Month Service**

- **ANNUALLY:**
  - Collect/Courier Starter Motor/s to service provider workshop.
  - Annual Service of Starter Motor/s in service provider's workshop.
  - Test Starter Motor/s in service provider's workshop.
  - Courier/Deliver Starter Motor/s to Marine Department, PoN.
  - Report on findings and submit recommendations.

MONTHS	STARTS (QTY)	COMPONENTS	ACTION
12 MONTHS	1000	C3 TURBINE OIL	CHANGE
	1000	ALL EXTERNAL CAP SCREWS	CHECK TORQUE
	1000	STRAINER	CHECK ELEMENT
	-----	TRANSPORT FROM/TO SITE	-----

**Table 2: 12 Month Service**

- **18 MONTHLY:**
  - Collect/Courier Starter Motor/s to service provider workshop.
  - Major Service of Starter Motor/s in service provider's workshop.
  - Test Starter Motor/s in service provider's workshop.
  - Courier/Deliver Starter Motor/s to Marine Department, PoN.
  - Report on findings and submit recommendations.

MONTHS	STARTS (QTY)	COMPONENTS	ACTION
18 MONTHS	1500	C3 TURBINE OIL	CHANGE
	1500	ALL EXTERNAL CAP SCREWS	CHECK TORQUE
	1500	STRAINER	CHANGE
	1500	CLUTCH TS700-359	CHANGE
	1500	REAR BEARING SS875-399	CHANGE
	1500	FRONT BEARING SS875-278	CHANGE
	1500	SEAL TS700-54	CHANGE
	1500	O'RING Y327-158	CHANGE
	1500	O'RING Y327-123	CHANGE
	1500	BEARING TS700-22	CHANGE
	-----	TRANSPORT FROM/TO SITE	-----

**Table 3: 18 Month Service**

- To supply spares for the ST799 starter motors during services and/or refurbishment.
- To provide written report/s and recommendations to TNPA after each service.
- To supply new/replacement starters on an ad-hoc basis.
- To remove, refit and execute on-board testing of serviced/repaired/new starter motors.
- To respond to call-outs/emergencies during the contracted period.
- To transport starter motors due for service to and from TNPA premises to Workshop. (including delivering of new starter motors to site).
- Supply spares for and service **RR 150-F30** Regulator, Solenoid and Valve Assemblies.
- Fitting and testing of **RR 150-F30** Regulator, Solenoid and Valve Assemblies.

3.3. PROJECT SPECIFIC SPECIFICATIONS AND OTHER TECHNICAL SPECIFICATIONS

3.3.1. Starter Motors in TNPA, PoN Fleet:

Model Numbers of starters in TNPA, PoN Fleet:

<b>MODEL - ST 799 SERIES STARTER MOTOR</b>	
<b>Right Hand Drive</b>	<b>Left Hand Drive</b>
<b>ST799GCDP03R51</b>	<b>ST799GCDP03L52-20</b>

**Table 4: Starter Models**

Serial Numbers of starters in TNPA, PoN Fleet:

<b>SERIAL NUMBERS - ST 799 SERIES STARTER MOTOR</b>	
<b>Right Hand Drive</b>	<b>Left Hand Drive</b>
SP090213054	SP090919008
SP080905054	SP081215146
SP081222120	SP080624028
SP081120022	SP081212001
SP080628005	SP080908271
SP090116122	SP080908270

**Table 5: Starter Identification Numbers**

3.3.2. Control Valves:

**MODEL – RR 150 – F30**

<b>DESCRIPTION</b>	<b>ITEM NUMBER</b>	<b>PART NUMBER</b>
<b>MASTER PISTON PIN</b> Include (Item 4)	15	RR 150-343
<b>PISTON ASSEMBLY, INCLUDE RETURN SPRING</b>	16	RR 150-K618V
<b>PILOT REGULATOR, INCLUDE SOLENOID</b>	17	ST400-2450-5S
<b>SOLENOID VALVE</b>	18	RR 100-2450-5S
<b>VALVE TUNE UP KIT</b> – (Includes Items 7, 8, 9, 11, 16)	-	RR 150-TK1
<b>PILOT REGULATOR TUNE UP KIT</b> - (Includes regulator diaphragm, seat, plunger of solenoid valve)	-	RR 150-TK2

**Table 6: Control Valve Spares List**

3.4. LOCATION OF THE SITE AND ACCESS

3.4.1. The Tug Boats are located at Tug Jetty, Admin Craft Basin (ACB) in Port of Ngqura, Port Elizabeth, Eastern Cape, South Africa.

3.4.2. Access to the site can be gained via the N2 on to Neptune Road, through Port Entrance Plaza, onto Klub Road and to ACB and Tug Jetty.

3.5. LEAD (TURNAROUND) TIMES DURING SERVICE AND SUPPLY OF SPARES:  
***(Complete Estimated Lead times in B.O.Q)***

3.5.1. Minor Service – (at 6- & 12-Month Intervals)

3.5.2. Major Service – (at 18 Month Intervals)

3.5.3. Call outs during breakdowns – (as required)

3.5.4. Written approvals to be requested by Contractor should additional spares be required during any service. Report/s with pictures to be provided and record kept of all such requests and approvals.

3.6. GENERAL

3.6.1. The Contractor shall adhere to the timelines (turnaround times) as indicated in B.O.Q. Failure to do so should be communicated in due time and in writing, to the TNPA Project Manager and Procurement team.

3.7. VEHICLES & EQUIPMENT:

3.7.1. The Contractor must ensure that all vehicles and equipment to be used on site and in the Port are kept and maintained in good condition and working order.

3.8. CONTRACTOR'S STAFF AND LABOURERS TO BE USED ON SITE:

3.8.1. The Contractor's Staff and Labourers to be used on site must:

- a) Be inducted by the TNPA SHE Department before working on site and in the Port.
- b) Have and use all safety and personal protective equipment (PPE) necessary for the task to be performed on site and in the Port.
- c) Undergo on-board Craft Familiarisation and Induction with Tug Master and Chief Marine Engineering Officer.
- d) Be certified, skilled and competent to conduct their duties (competence certificates shall be provided as per the Port of Ngqura SHE Requirements and will be presented to the TNPA Supervisor upon request for such documentation).
- e) Conform to the acceptable standards of behaviour and dress appropriately.

3.9. WORKING HOURS

3.9.1. Contractor must have a repair technician available for emergency/breakdown repairs with a maximum of 24 Hours turnaround time. Technician to be available for removal, fitting and testing of starter motors and control air systems 24/7 during the contracted period.

### 3.10. DEFECTS & GUARANTEE OF THE WORKS

3.10.1. The contractor shall supply TNPA Port of Ngqura, a minimum of 6 months guarantee & warrantee on any failure arising from defective workmanship after commissioning on respective engine.

3.10.2. The contractor shall supply TNPA Port of Ngqura with a minimum of 12 months guarantee & warrantee on replacement parts used during services.

### 3.11. COMMUNICATION

3.11.1. All communication and instructions shall be via, email, letter or fax.

3.11.2. All verbal communication and instruction made, be it on site or elsewhere, shall be confirmed in writing.

3.11.3. The Contractor shall provide all their contact details with their tender submissions.

### 3.12. COMPLIANCE

3.12.1. The contractor shall comply with the Port of Ngqura's SHE requirements (See **Annexure B** for the TNPA Port of Ngqura SHE minimum requirements).

3.12.2. The contractor shall submit a SHE file for approval and as required by the TNPA PORT OF NGQURA Port of Ngqura SHEQ department.

### 3.13. QUALITY CONTROL

3.13.1. Quality control of the contractual work shall be under the management of the TNPA Supervisor.

3.13.2. The Contractor shall also conduct their own internal quality control of the works and submit all test certificates to TNPA Project Manager.

## 4. TNPA PORT OF NGQURA SHE REQUIREMENTS

3.1. All general TNPA Contractor Management SHE minimum requirements are indicated to **Annexure B** and the contractor is to submit all the documents required to their safety file for approval.

## 4. PRICING INSTRUCTIONS

### 4.1. INTRODUCTION

4.1.1. Pricing Assumptions mean the criteria as set out below, read together with all Parts of this specifications document, which it will be assumed in the contract that the tenderer has taken into account when developing their rates and prices.

4.1.2. Tenderers are advised that the Bill of Quantities is a "provisional bill" subject to re-measurement as the work proceeds. The initial quantities set out in the Bill of Quantities are approximate and do not necessarily represent the actual amount of work to be done and shall be re-measured and paid for based upon the actual final quantity of work done and certified for payment by the Supervisor in terms of the Contract and as described in the Pricing Assumptions and as shown on the drawings.

#### 4.2. GENERAL

- 4.2.1. The terms “Schedules of Quantities”, “Bill of Quantities” and “Bills of Quantities” shall have the same meaning. The title “Engineer” shall be interpreted as “Project Manager”.
- 4.2.2. The Bill of Quantities contain only brief descriptions to identify the salient items required and the Tenderer is referred to the Generic Conditions of Contract, Scope of Work and drawings for the full requirements.
- 4.2.3. The prices and rates to be inserted in the Bill of Quantities are to be the full inclusive prices to be paid by the Employer for the work described under the several items. Such prices and rates shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based, as well as overhead charges and profit.
- 4.2.4. Where an item in the Bill of Quantities makes reference to a specific measurement and payment clause, the rate or price of the item shall also include for all costs stated in the particular payment clause. Such reference will be to the relevant Pricing Assumption item. The reference clauses indicated are not necessarily the only sources of information in respect of scheduled items. Further information and specifications may be found elsewhere in the contract documents.
- 4.2.5. A price or rate is to be entered against each item in the Bill of Quantities, whether the quantities are stated or not. An item against which no price is entered is deemed to be covered by the other prices or rates in the Bill of Quantities but the rate, where applicable, will nevertheless be taken as nil and no claim will be considered should the quantity of such items increase or decrease.
- 4.2.6. Where items in the Bill or Quantities include reference to trade names or proprietary brands, the reference is used in order to establish the required type and quality of product on which the price is based.
- 4.2.7. Where items in the Bill or Quantities have no applicable measurement and payment clause reference the rate or price for the item shall be the fully inclusive rate or price for the work described including all materials, labour, plant, equipment, overheads and profit as applicable

