

# TRANSNET ENGINEERING

## PRODUCT AND SERVICES DEVELOPMENT

### SPECIFICATION FOR **TANDEM AXLE BOGIE ASSEMBLIES (FOR SLOW SPEED, SEMI TRAILERS)**

Revision 02

Date of Release: 22 November 2021

**PD\_PRTS\_NAT\_SPEC\_007**

**Valid for 4 weeks from 2021-11-23T10:09:35+0200**

**Acting Principal Engineer – P&SD – Ports:**

Name: Keegan Pillay

Signature: \_\_\_\_\_

A handwritten signature in black ink, appearing to read "Keegan Pillay", written over a horizontal line.

Date: 22/11/2021

Document Name: TANDEM AXLE BOGIE ASSEMBLIES (FOR SLOW SPEED, SEMI TRAILERS)

DOC. No.: PD\_PRTS\_NAT\_SPEC\_007

Revision: 02

Date: 22/11/2021

Page: 1 of 3

## SPECIFICATION:

Tandem Axle Bogie Assemblies for the 61 Ton Trailers being developed by the Ports Business should be supplied as per the product description given below.

| Product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quantity                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <p><b>TANDEM AXLE BOGIE ASSEMBLY (FOR A SLOW SPEED, SEMI TRAILER)</b></p> <p>45 TON, HEAVY DUTY, TANDEM AXLE BOGIE WITH AN <b>OVERSLUNG</b> SUSPENSION SYSTEM FOR PORT TERMINAL USE. THE TANDEM AXLE BOGIE ASSEMBLY IS TO CONSTITUTE THE FOLLOWING (AMONG OTHER COMPONENTS):</p> <ul style="list-style-type: none"> <li>• 2 X 130MM, EN19, SOLID ROUND AXLES RATED FOR A MINIMUM OF 22.7 TON EACH;</li> <li>• 11 BLADE SPRINGS PER SIDE ON EACH AXLE (JUMBO TANDEM PORT SPEC);</li> <li>• HUBS WITH 10 X M24 STUDS;</li> <li>• DRUM BRAKE ASSEMBLIES (420 X180);</li> <li>• AUTOMATIC SLACK ADJUSTERS (37 SPLINE AUTO), QTY: 4;</li> <li>• TENSION SPRINGS (SWIVEL LOOP), QTY: 6;</li> </ul> <p>Valid for 4 weeks from 2021-11-23T10:09:35+0200</p> <p>Each Tandem Axle Bogie Assembly supplied is to possess the following over and above the requirements stipulated above:</p> <ol style="list-style-type: none"> <li>1. The capability to house eight wheels (the specification of each wheel is prescribed below). <p>Wheel Specification:</p> <ol style="list-style-type: none"> <li>a. Pneumatic Tyre, Michelin X Terminal - T TL, Size: 310/80 R22.5, Load Index 175, Speed Symbol A8.</li> <li>b. Heavy Duty Rim, Jantse 900258 HD Rim, Centre Bore = 281 mm, PCD = 335 mm, suitable for fitment onto the above specified tyre.</li> </ol> </li> <li>2. A track that is approximately 1930 mm.</li> <li>3. A centre to centre distance between hanger brackets of 1000 mm (If viewing the trailer from the top).</li> </ol> | <p>As per the REQ created.</p> |

Document Name: TANDEM AXLE BOGIE ASSEMBLIES (FOR SLOW SPEED, SEMI TRAILERS)

DOC. No.: PD\_PRTS\_NAT\_SPEC\_007

Revision: 02

Date: 22/11/2021

Page: 2 of 3

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>4. A distance of approximately 515 mm from the axle beam's centre to the top of the unit's hanger brackets when the unit is unladen.</p> <p>The following files/ documents are to be supplied as part of this tender:</p> <ol style="list-style-type: none"> <li>1. A CAD model in STEP file format of the offered/ supplied Tandem Axle Bogie Assembly.</li> <li>2. A specification sheet and an assembly drawing of the offered/ supplied Tandem Axle Bogie Assembly.</li> <li>3. The operational and maintenance instructions and schedule for the offered/ supplied Tandem Axle Bogie Assembly.</li> <li>4. A spare parts catalogue for the offered/ supplied Tandem Axle Bogie Assembly.</li> <li>5. The relevant warranty documentation (A warranty for the minimum period of 1 year is to be provided on the offered/supplied Tandem Axle Bogie Assembly).</li> <li>6. Performance test reports/ certificates which prove that the Tandem Axle Bogie Assembly offered/ supplied is fully certified to perform at the capacity it has been rated for. It must be noted that an approved brake test report (from an independent, certified, vehicle testing authority) is to be issued to certify that the braking capacity is 22.7 Ton per axle. Compliance to SANS 1447-2 is a requirement.</li> </ol> |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

## **DELIVERY ADDRESS**

Valid for 4 weeks from 2021-11-23T10:09:35+0200

Price should include delivery to the following address:

311 Solomon Mahlangu Drive,

Transnet Engineering,

Ports Business, Bay 26,

Durban

Document Name: TANDEM AXLE BOGIE ASSEMBLIES (FOR SLOW SPEED, SEMI TRAILERS)

DOC. No.: PD\_PRTS\_NAT\_SPEC\_007

Revision: 02

Date: 22/11/2021

Page: 3 of 3