



RFQ / TENDER

Tender No: HO 22369

Vendor No: 11001386

BOARD LIST
BOARD LIST
TRANSNET FREIGHT RAIL
PROCUREMENT DEPARTMENT
2000

Purchaser : Zakhele Nxumalo
Telephone : 011 584 0605
Fax Number: 011 584 1334

Please quote reference:
D55/6000621801

Deliver to:
As indicated in the description
column of this document.
1400 See below.

Closing Date : 01.09.2016
Validity Date : 31.12.2016
RFQ No : 6000621801

Currency: ZAR

RFQ/TENDER: HOAC/HO/22369

SUPPLY AND DELIVERY OF BRACKET, CLEVIS, SPHEROIDAL GRAPHITE IROIN
PIN; SWIVEL, M16, DIA 16 MM, LG 180 MM, SS, ASSEMBLY; KEEPER PIECE AND
U- BOLT, SS, LINK; BASE PLATE, LG 120 MM, STL, ASSEMBLY; CLAMP, PIPE, STL
LINK; CHAIN, ID 23 X LG 55 X THK 12 MM, STL AND BRACKET; MAST, SWIVEL, STL
AT TFR-WAREHOUSE MILLSITE KRUGERSDORP

PRODUCTS MUST BE TECHINCALLY APPROVED BY TRANSNET FREIGHT RAIL
TECHNOLOGY MANAGEMENT FOR USE IN HEAVY AXLE LINES.

NB. IN TERMS OF PARAGRAPH 5.6 OF THE NATIONAL TREASURY INSTRUCTION NO 4
OF 2017 WHICH EFFECTIVE ON 1 MAY 2016.

BIDDERS ARE REQUESTED TO CONFIRM THE REGISTRATION ON THE NATIONAL
TREASURY CENTRAL SUPPLIER DATABASE WITH "MA" REFERENCE NUMBER

BIDDER/S ARE HEREBY INVITED TO QUOTE AND SUBMIT QUOTATION/S AT INYANDA
HOUSE 1, 21 WELLINGTON ROAD, PARKTOWN-JOHANNESBURG, NOT LATER THAN
THURSDAY 01 SEPTEMBER 2016 AT 10:00 AM.

1. RETURN OF QUOTATION/S PLEASE FAX: 011 774 9129 OR 774 9186 OR

E-MAIL TO: thuli.mathebula@transnet.net.

TENDER BOX IS OPEN FOR SEVEN DAYS PER WEEK FOR THE RFQ/TENDERS AND
QUOTATIONS SUBMISSION.

1.1 QUOTATION/S MUST BE SUBMITTED PUNCTUALLY AT 10:00 ON THE CLOSING DATE AND LATE QUOTATIONS WILL
NOT BE CONSIDERED.

1.2 IF DELIVERED BY HAND:

TRANSNET FREIGHT RAIL, SUPPLY CHAIN SERVICES

DATE:

SIGNATURE OF TENDERER(S):

CONTACT PERSON:

TEL No:

RFQ / TENDER

Tender No: HO 22369 Page
Date : 23.08.2016 2

BOARD LIST
TRANSNET FREIGHT RAIL
PROCUREMENT DEPARTMENT

GROUND FLOOR
INYANDA HOUSE 1
21 WELLINGTON ROAD
PARKTOWN
2193

2. CONDITIONS:

- 2.2 ANY PURCHASE ORDER PLACED AS A RESULT OF YOUR QUOTATION WILL BE SUBJECT TO THE STANDARD TERMS AND CONDITIONS OF CONTRACT, FORM US7(LATEST), GENERAL TENDER CONDITIONS, FORM CSS5 (LATEST) AND CONDITIONS MENTIONED HEREIN.
- 2.3 TENDERERS MAY OFFER AN EARLIER VALIDITY DATE, BUT THEIR QUOTATION MAY IN THAT EVENT, BE DISREGARDED FOR THIS REASON.
- 2.4 TENDERERS ARE REQUIRED TO OFFER ONLY FIRM PRICES. PRICES SUBJECT TO REVIEW IN TERMS OF CLAUSE 32 OF FORM US7 WILL ONLY BE CONSIDERED SHOULD THE DELIVERY PERIOD REQUIRED EXCEED 6 MONTHS.
- 2.5 BEST DELIVERY TIME MUST BE OFFERED.

2.6 DISCOUNT (TRADE DISCOUNT),VALUE ADDED TAX (VAT) MUCH BE SHOWN SEPARATELY.

2.7 TRANSNET RESERVES THE RIGHT TO NEGOTIATE PRICES AND COMMERCIAL ASPECTS AFTER THE CLOSING DATE OF THE QUOTATION.

2.8 DIRECT DELIVERY INTIMATES DELIVERY BEING EFFECTED INTO THE WAREHOUSE OR THE ACTUAL POINT OF SUPPLY AND SHOULD THEREFORE INCLUDE ANY TRANSPORTATION MODE DEEMED NECESSARY IN EXECUTING THIS METHOD OF DELIVERY BASIS IN ORDER TO MEET THE REQUIRED DELIVERY DATE. TAX CLEARANCE CERTIFICATES: The Regulations in terms of the Public Finance Management Act, 1999: Framework for Supply Chain Management as published in Government Gazette No.25767 dated 5 December 2003, Clause 9 (1) (d), stipulates that the accounting authority of an institution to which these regulations apply must reject any bid from a supplier who fails to provide written proof from the South African Revenue that the supplier either has no outstanding tax obligations or has made arrangements to meet outstanding tax obligations. Tenderers will be disqualified if a valid tax clearance certificate or written proof from the South African Revenue Service that supplier has made arrangements to meet outstanding tax obligations is not submitted with the tender. COMPANY DETAILS: NAME OF COMPANY: _____ CONTACT

PERSON: _____ TEL. No. _____ FAX No. _____ REG.

No. _____ BROAD BASE BLACK ECONOMIC EMPOWERMENT (BBBEE) Transnet fully endorses and supports the Government's Broad-based Black Economic Empowerment Programme and it is strongly of the opinion that all South African Business Enterprises have an equal obligation to redress the past. Transnet will therefore prefer to do business with local business enterprises who share these same values. Transnet will endeavour to do business enterprises that possess a BBBEE "recognition level" of at least a level 5. Transnet urges Tenderers (large enterprises and QSE's- see below) to have themselves accredited by any one of the various Accreditation Agencies available, who do their BBBEE ratings in accordance with the latest Codes (i.e. those promulgated on 9 February 2007) and whose names appear on the present ABVA (Association of BEE Verification Agencies)-"List of Full Members" as displayed on the ABVA website (www.abva.co.za) Although no agencies have, as yet, been accredited by SANAS (SA National Accreditation System), Transnet will, in the interim, accept rating certificates of tenderers who have been verified by any of the listed agencies. Enterprises will be rated by such agency based on the Following: 1. Large Enterprises (i.e. annual turnover > R35 million: "Rating level base on all seven elements of the BBBEE scorecard. 2. Qualifying Small Enterprises-(QSE)(i.e. annual turnover > R5m but < R35m "Rating based on any four elements of the BBBEE scorecard. NB:

3. Emerging Micro Enterprises-(EME) (i.e. annual turnover < R5m) are exempted from being rated/verified: "Automatic rating of Level 4 BBBEE irrespective of race of ownership, i.e. 100% BBBEE recognition

"Black ownership > 50% or Black Women ownership > 30% automatically qualifies as level 3 BBBEE, i.e. 110% BBBEE recognition.

"EME's should provide certified documentary proof of annual turnover (i.e. audited financials) plus proof of Black ownership if Black ownership > 50% or Black Women ownership > 30% from the EME's Auditor/

DATE:

SIGNATURE OF TENDERER(S):

RFQ / TENDER

Tender No: HO 22369
Date : 23.08.2016

Page
3

BOARD LIST TRANSNET FREIGHT RAIL PROCUREMENT DEPARTMENT

Accounting Officer.

4. In addition to the above, Tenderers who wish to enter into a Joint Venture or subcontract portions of the contract to BBBEE companies, must state in their tenders the percentage of the total contract value that will be allocated to such BBBEE companies should they be successful in being awarded any business. A rating certificate in respect of such BBBEE JV-partners and /or sub-contractor/s, as well as a breakdown of the distribution of the aforementioned percentage must also be furnished

In view of the high emphasis which Transnet places on Broad-based Black Economic Empowerment, Transnet will allow certain preference points for BBBEE in the evaluation of all responses. Depending upon the value of the ensuing business award (i.e. below or in excess of R2m), the 80/20 or 90/10 point preference systems will be utilized where BBBEE will count out of 20 or 10 respectively in the evaluation process.

EACH RESPONDENT IS REQUIRED TO FURNISH PROOF OF THE ABOVE TO TRANSNET
FAILURE TO DO SO WILL RESULT IN A SCORE OF ZERO BEING ALLOCATED FOR BBBE
Turnover: Kindly indicate your company's annual turnover for the past year R_____

"If annual turnover < R5m, please attach certified confirmation from your Auditor/Accounting Officer

"If annual turnover > R5m please attach original or certified copy of accreditation certificate and detailed score card by an ABVA accreditation agency (registered as a "Full Member")

PAYMENT TERMS

The following payment terms will apply as from 1 October 2008.

"All suppliers will be paid 30 days in receipt of month and statement.
i.e. payment term F055

CONDITIONS:

This quotation is subject to the provisions of the Standard Terms and Conditions of Contract, Form US7, (Latest) and the General Tender Conditions, Form CSS5 (Latest) and any other standard or special conditions mentioned and/or embodied in the quotation request.

SCHEDULE OF REQUIREMENTS

TENDERERS SHOULD INSERT THEIR PRICE/S UNDER THE APPROPRIATE HEADING HEREUNDER;

IN THIS REGARD THE TENDERER'S ATTENTION IS DIRECTED TO PARAGRAPH 16 OF FORM CSS5 (LATEST).

NB. TENDERERS OFFERING GOODS FROM IMPORTED SUPPLIES MUST SUBMIT THEIR PRICES ON THE DELIVERY BASIS APPEARING UNDER COLUMN (C) OF THIS SCHEDULE OF REQUIREMENTS.

DATE:

SIGNATURE OF TENDERER(S):

RFQ / TENDER

Tender No: HO 22369
Date : 23.08.2016

Page
4

BOARD LIST
TRANSNET FREIGHT RAIL
PROCUREMENT DEPARTMENT

TRANSNET INSISTS ON HONESTY AND INTEGRITY BEYOND REPROACH AT ALL TIMES AND WILL NOT TOLERATE ANY FORM OF IMPROPER INFLUENCING, BRIBERY, CORRUPTION, FRAUD, OR ANY OTHER UNETHICAL CONDUCT ON THE PART OF BIDDERS /TRANSNET EMPLOYEES. IF, IN THE OPION OF TRANSNET,S CHIEF OPERATING OFFICER, A TENDERER/CONTRACTOR/SUPPLIER HAS OR CAUSED TO BE PROMISED, OFFER OR GIVEN TO ANY TRANSNET EMPLOYEE, ANY BRIBE, COMMISSION, GIFT LOAN ADVANTAGE OR OTHER CONSIDERATION,TRANSNET SHALL BE ENTITLED TO REVOKE THE TENDER/CONTRACT BY FOLLOWING ITS INTERNAL POLICIES THAT GOVERN THE ECLUSION PROCESS.IN SUCH AN EVENT TRANSNET WILL BE ENTITLED TO PLACE ANY TENDERER/CONTRACTOR/SUPPLIER WHO HAS CONTRAVENED THE PROVISIONS OF TRANSNET'S BUSINESS ETHICS ON ITS LIST OF EXCLUDED TENDERERS.THIS LIST WILL ALSO BE DISTRIBUTED TO ALL OTHER STATE OWNED ENTERPRISES AND GOVERNMENT DEPARTMENTS.

TRANSNET INVITES ITS VALUED SUPPLIERS TO REPORT ANY ALLEGATIONS OF FRAUD, CORRUPTION OR OTHER UNETHICAL ACTIVITIES TO TRANSNET TIP-OFFS ANONYMOUS, AT ANY OF THE FOLLOWING ADDRESSES/ CONTACT NUMBERS:

TOLL-FREE ANONYMOUS HOTLINE-0800 003 056
EMAIL-transnet@tip-offs.com
FAX NUMBER-0800 007 788
FREEPOST DBN 298, UMHLANGA ROCKS, 4320

ADDITIONAL INFORMATION REQUIRED:(WHERE APPLICABLE)

3.1 THE FOLLOWING ADDITIONAL INFORMATION IS REQUIRED:

- (A) DISCOUNT:-----
(B) SETTLEMENT DISCOUNT:-----
(C) PRICE/S FIRM:-----
(D) PRICE/S FIRM UNTIL:----- THEREAFTER SUBJECT TO REVIEW.
(E) PRICE/S NOT FIRM:-----
(F) SABS MARK:-----
(G) SABS PERMIT NO:-----
(H) BRAND/MATERIAL TYPE:-----
(I) FULL NAME AND ADDRESS OF MANUFACTURER:-----

(J) FULL NAME AND ADDRESS OF INSPECTION POINT:-----

(K) COUNTRY OF ORIGIN:-----

(L) YEAR 2000 CONTRACT COMPLIANCE:

Vendor/proposers shall indicate their year 2000 compliance with:

- A. Technology Products.
B. Equipment, products, components or parts

DATE:

SIGNATURE OF TENDERER(S):

RFQ / TENDER

Tender No: HO 22369
Date : 23.08.2016

Page
5

BOARD LIST TRANSNET FREIGHT RAIL PROCUREMENT DEPARTMENT

C. Products and Services

Non-compliance with either (A) or (B) shall result in your bid/proposal being deemed non-responsive. Non-Compliance with (C) may cause your bid/proposal to be deemed non-responsive. If you indicate that none of the following apply, please provide a written justification for your determination. Transnet will review this justification and will make a final determination.

Year 2000 Compliance means that (A) the information Technology, (B) Equipment/Products/Components/Parts (Collectively Products) supplied.

(C) Products and Services contracted, will accurately process date and time data from into and between the 20th and 21st centuries. The year 1999 and 2000 and for all leap year. Process date and time includes, but is not limited to, data calculation, logistical functions, program branching, format conversion, edits and validations and the use of dates in comparisons, sorting sequencing, merging, retrieving, searching and indexing. Furthermore year 2000 compliance when (A) used in combination with other information technology, (B) used in combination with other products, (C) used in combination with their (Vendor) other data required interfaces, shall accurately process date and time data (A) if the other technology, (B) If the other products, (C) either passed to or received from their other customers/suppliers, properly exchange date and time data with it/ them.

Comply: _____ Does not Comply: _____ Not Comply: _____

Justification: _____

(M) SURPLUS MATERIAL:

TENDERERS MUST INDICATE IF THEY WILL BE PREPARED TO PURCHASE BACK FROM TRANSNET ANY SURPLUS MATERIAL WHICH MAY BECOME AVAILABLE FROM ANY RESULTING PURCHASE ORDER/CONTRACT ORIGINATED FROM THE QUOTATION SUBMITTED:

(N) PAYMENT OVERSEAS:

ONLY IF TRANSNET LIMITED IS REQUESTED BY THE TENDERER TO EFFECT PAYMENT OVERSEAS DIRECT TO THE TENDERER'S PRINCIPAL/SUPPLIER THE FOLLOWING INFORMATION IS REQUIRED:

* EXCHANGE RATE ON WHICH THE QUOTATION PRICE IS BASED: R 1.00 SA CURRENCY BEING EQUAL TO----- (FOREIGN CURRENCY).

* PERCENTAGE IN RELATION TO THE QUOTATION PRICE TO BE REMITTED OVERSEAS:

* NAME OF COUNTRY TO WHICH PAYMENT IS TO BE MADE:

* APPLICABLE DATE OF EXCHANGE RATE:

DATE:

SIGNATURE OF TENDERER(S):

RFQ / TENDER

Tender No: HO 22369
Date : 23.08.2016

Page
6

BOARD LIST
TRANSNET FREIGHT RAIL
PROCUREMENT DEPARTMENT

* BENEFICIARY'S NAME AND FULL ADDRESS:

* BENEFICIARY'S BANKERS AND FULL ADDRESS:

* APPLICABLE ACCOUNT NUMBER:

(O) DELIVERY DATE:

TENDERERS MUST FURNISH THEIR ACTUAL DELIVERY AND MANUFACTURING PERIOD
HEREUNDER NOTWITHSTANDING THE DELIVERY DATES SPECIFIED BY TRANSNET.

THE FOLLOWING MUST ALSO BE FURNISHED IN REGARD TO THE ABOVE:

1. PERIOD REQUIRED TO OBTAIN RAW MATERIAL.----(DAYS)
2. MANUFACTURING PERIOD.------(DAYS)
3. PERIOD TO TRANSPORT MATERIAL TO DESTINATION.-(DAYS)

MATERIAL NO. 1.(PERIOD) 2. (PERIOD) 3. (PERIOD)

FUNCTIONALITY AND WEIGHT RATING BASE ON FOLLOWING ELEMENTS:

1. SUBSTANTIVE RESPONSIVENESS TEST-100%
(a) PRODUCT APPROVAL CERTIFICATE BY TFR-TECHNOLOGY TRACKING MANAGEMENT
(B) DELIVERY SCHEDULE
1. COMMERCIAL-PRICING 80%
2. BBBEE CERTIFICATE & SCORECARD 20%

Item	Qty	Material	Description
00010	400	54006272	BRACKET;CLEVIS,SPHEROIDAL GRAPHITE IRON

R.....
Each

Delivery Date: 25.09.2016

FULL DETAILS OF DESCRIPTION

DATE:

SIGNATURE OF TENDERER(S):

RFQ / TENDER

Tender No: HO 22369
Date : 23.08.2016

Page
7

BOARD LIST
TRANSNET FREIGHT RAIL
PROCUREMENT DEPARTMENT

Item	Qty	Material	Description
BRACKET TYPE CLEVIS MATERIAL SPHEROIDAL GRAPHITE IRON SWINGING DRAWING NO: H5001103133EDE0067011JV			

00020	400	54006275	PIN;SWIVEL, M16,DIA 16 MM,LG 180 MM,SS R..... Each
-------	-----	----------	----------------------------------------------------------

Delivery Date: 25.09.2016

FULL DETAILS OF DESCRIPTION

PIN
TYPE SWIVEL, M16
DIAMETER 16 MM
LENGTH 180 MM
MATERIAL STAINLESS STEEL
DRAWING NO: H5001103133EDE0073011JV

00030	550	54006331	ASSEMBLY;KEEPER PIECE AND U- BOLT,SS R..... Each
-------	-----	----------	--------------------------------------------------------

Delivery Date: 25.09.2016

FULL DETAILS OF DESCRIPTION

ASSEMBLY
TYPE KEEPER PIECE AND U- BOLT
APPLICATION RETURN WIRE CLAMP
MATERIAL STAINLESS STEEL
50 KV
DRAWING NO: BB 5-5895 REV 0

00040	100	54006352	LINK;BASE PLATE,LG 120 MM,STL R..... Each
-------	-----	----------	-------------------------------------------------

Delivery Date: 25.09.2016

FULL DETAILS OF DESCRIPTION

LINK
TYPE BASE PLATE
DIMENSIONS LG 120 MM
MATERIAL STEEL

DATE:

SIGNATURE OF TENDERER(S):

RFQ / TENDER

Tender No: HO 22369
Date : 23.08.2016

Page
8

BOARD LIST
TRANSNET FREIGHT RAIL
PROCUREMENT DEPARTMENT

Item	Qty	Material	Description
DRAWING NO: H5001103133EDE0097010JV			
00050	2,000	54006353	ASSEMBLY;CLAMP,PIPE,STL

R.....
Each

Delivery Date: 25.09.2016

FULL DETAILS OF DESCRIPTION

ASSEMBLY
TYPE CLAMP
APPLICATION PIPE
MATERIAL STEEL
DRAWING NO: H50110313EDE0101010JV

00060	350	54006358	LINK;CHAIN,ID 23 X LG 65 X THK 12 MM,STL
-------	-----	----------	------------------------------------------

R.....
Each

Delivery Date: 25.09.2016

FULL DETAILS OF DESCRIPTION

LINK
TYPE CHAIN
DIMENSIONS ID 23 X LG 65 X THK 12 MM
MATERIAL STEEL
OHE CATENARY SYSTEM
DRAWING NO: H5001103133EDE0083010JV

00070	400	54006360	BRACKET;MAST,SWIVEL,STL
-------	-----	----------	-------------------------

R.....
Each

Delivery Date: 25.09.2016

FULL DETAILS OF DESCRIPTION

BRACKET
TYPE MAST
APPLICATION SWIVEL
MATERIAL STEEL
DRAWING NO: H5001103133EDE006601-1JV

DATE:

SIGNATURE OF TENDERER(S):

DRAWINGS- HO 22369

"PREVIEW COPY ONLY"

4

3

2

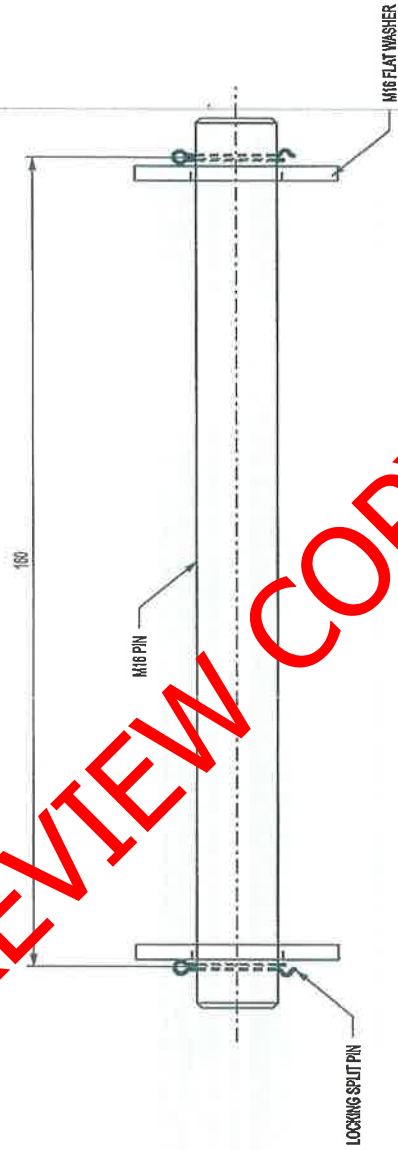
1

10-1-10-8700-30-3-881-8-01009H

DO NOT SCALE - IF IN DOUBT, ASK

NOTES

1) ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED.



MASTER
2008-04-01
TRANSNET
TRANSNET PROJECTS

MATERIAL	STAINLESS STEEL GRADE 316
FINISH	NATURAL

TRANSNET
TRANSNET PROJECTS

ORE LINE RAIL EXPANSION PROJECT PHASE 1A

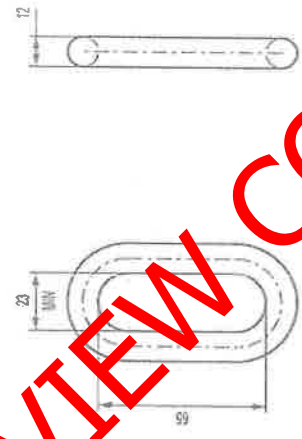
SISHEN SALDANHA RAILWAY LINE (TFR)
OHTC CATENARY SYSTEM
M16 SWIVEL PIN
DRAWING DETAIL

EPOCH CONSULTANT: HUGUIN		ORIGINATOR: TP DESIGN	
NAME	SIGNATURE	NAME	SIGNATURE
J. STRIDOM	[Signature]	R. PENFOLD	[Signature]
LEAD DES. ENGR.	27 03 08	TRASH	27 03 08
ENR. COORD.	27 03 08	CHECKED	27 03 08
ENR. MANAGER	27 03 08	ENR. COORD.	27 03 08
AREA MANAGER	27 03 08	DISCIP. ENGR.	27 03 08
PROJECT MGR.	27 03 08	ENR. MANAGER	27 03 08
CLIENT APPROVAL: TRANSNET FREIGHT RAIL		AREA MANAGER	
NAME	SIGNATURE	NAME	SIGNATURE
T. EMERAN	[Signature]	PR. ENGR. / PR. TECH.	27 03 08
SEN. ENGR. (ELC & SIG)	27 03 08	NAME	ANDRÉS DE VET
SEN. TECHNOLOGIST (ELC)	27 03 08	SIGNATURE	[Signature]
REG. NUMBER	807024	DATE	27 03 08
SCALE	NTS	OR AS SHOWN	27 03 08
NO.		NO.	
1	FOR CONSTRUCTION	RP	FOR CONSTRUCTION
A	FOR CLIENT APPROVAL	RP	FOR CLIENT APPROVAL
NO.	DESCRIPTION	BY	DATE
REVISIONS / ISSUE AUTHORIZATION			

This document including all design and information therein is Confidential Intellectual Property of Transnet and/or 1960 77. Copyright and all other rights are reserved by Transnet and/or 1960 77. This document may only be used for its intended purpose.

NOTES

1) ALL DIMENSIONS IN INCH UNLESS OTHERWISE STATED



MASTER
2009-09-03
WING
YOUNG



MATERIAL	STEEL (GRADE 43)
SPEC	BS EN 10025:2015
FINISH	GALVANISED
SPEC	SANS 121

NOTES:

[illegible]

This Document contains all data and information therein is Confidential Intellectual Property of Transmut and/or 1986 JV. Copyright and all other rights are reserved by Transmut and/or 1986 JV. This Document may only be used for its intended purpose.

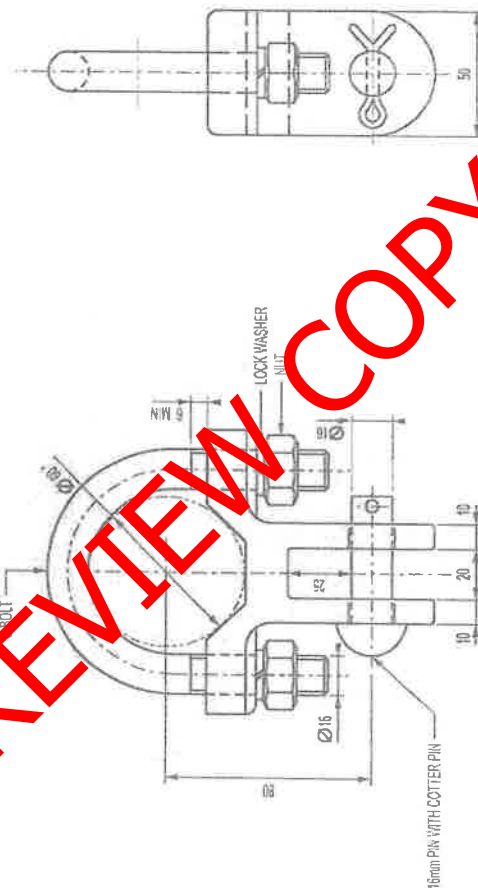
ORE LINE RAIL EXPANSION PROJECT PHASE 1A

SISHEN SALDANHA RAILWAY LINE (TFR)
OHTE CATENARY SYSTEM
CHAIN LINK
DRAWING DETAIL

PROX (1) NUMBER		QV	FPS	UES	TYPE	QMS NO	SHT	REV.	ID
500110		3	133	E	DE	0083	01	0	N

NOTES

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED



MASTER

2017-09-03

PROJECTION

HOUSING	MATERIAL	SPHEROIDAL GRAPHITE IRON
	SPEC	SANS 336, GRADE SG 50
	FINISH	GALVANISED
	SPEC	SANS 121
BOLT	MATERIAL	STEEL (GRADE 43)
	SPEC	BS EN 10025 S275
	FINISH	GALVANISED
	SPEC	SANS 121

NOTES:

ORIGINATOR: TP DESIGN

SEVEN CONSULTING, HINGW

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

This Document, including all design and information therein is Confidential Intellectual Property of Treco and/or 1986 IV. Copyright and other rights are reserved for Treco and/or 1986 IV. This Document may not be used for any other purpose without the written consent of Treco and/or 1986 IV.

ORE LINE RAIL EXPANSION PROJECT PHASE 1A

SISHEN SALDANHA RAILWAY LINE (TFR)
OHTE CATENARY SYSTEM
PIPE CLAMP ASSEMBLY
DRAWING DETAIL

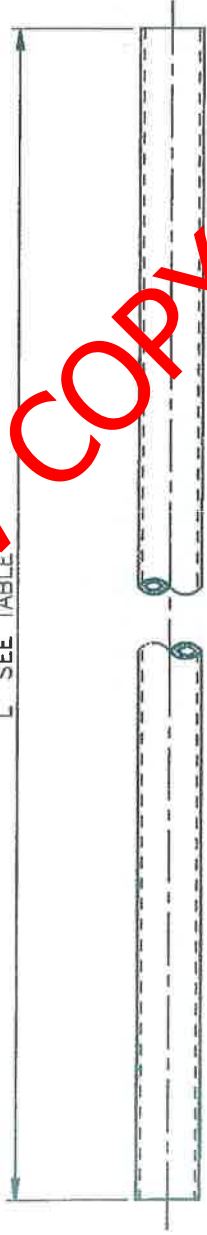
PROJECT NUMBER	INV	FDS	DIS	TYPE	ORG. HIG.	SMT.	REV.	ID
4500110-3-133-E				DE	0101	01	0	N

AMENDMENTS		
NO	NAME	DATE
1	JVT	97-04-07

REVISED, DRG NO WAS
CEE-TMHH-1
DO REF: T96/001

TYPE	MAST TO TRACK CRS	LENGTH OF TUBE "L"
I	2750	2525
II	3200	2900
III	3300	3350
IV		1500

"L" SEE TABLE



NOTE
PAINT ENDS WITH ZINC PAINT TO SPECIFICATION CSS-183/5.15.

FINISH
ZINC COAT TO SABS 763 FOR CONDITIONS IN SITU.

MATERIAL: TUBE, STEEL Ø60 OD NOM WALL THICKNESS 4 NOM TO SABS 657 GRADE 340 ERW

DO REF: GEN TOL: LIN ± 3 ANG ±

DRN: T HUMAN CKD: R McMILLAN DATE: 80-02-13

ENG: GA WILLIAMS for CHIEF ENG


INFRASTRUCTURE (ELECTRICAL)

CANTILEVER STRUT

25KV AC AUTO TENSIONED CONSTRUCTION

STORES	ITEM NO

DIMENSIONS: mm
SCALE: 1:5

A3

DRAWING NO CEE-

TMC-113

SHEET — OF —

"PREVIEW COPY ONLY"



AMENDMENTS		
NO	NAME	DATE
1	JVT	97-04-07

REVISED, DRG NO WAS CEE-TMHH-1 DO REF: T96/001	
---------------------------------------------------	--

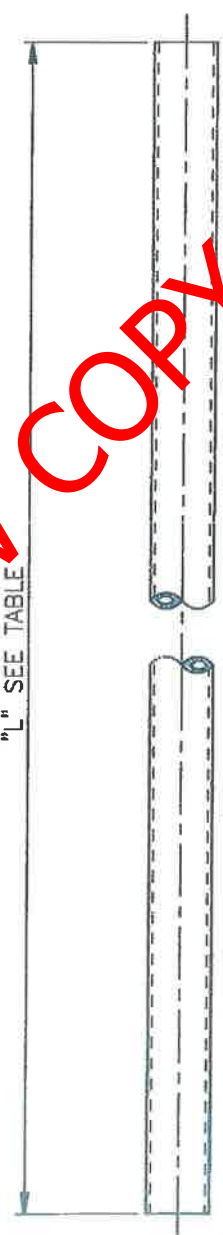
STORES ITEM NO	
----------------	--

DIMENSIONS: mm	
SCALE: 1:5	

A3	
DRAWING NO CEE-	
TMC-113	
SHEET - OF -	

TYPE	MAST TO TRACK CRS	LENGTH OF TUBE "L"
I	2750	2525
II	3200	2900
III	3300	3350
IV	—	1500

"L" SEE TABLE



NOTE
PAINT ENDS WITH ZINC PAINT TO SPECIFICATION CSS-183/5.15.

FINISH
ZINC COAT TO SABS 763 FOR CONDITIONS IN SITU.

MATERIAL: TUBE, STEEL Ø60 OD NOM WALL THICKNESS 4 NOM TO SABS 657 GRADE 340 ERW

DO REF: — GEN TOL: LINE 3 ANG± —

DRN: T HUMAN CKD: R McMILLAN DATE: 80-02-13

ENG: — GA WILLIAMS for CHIEF ENG

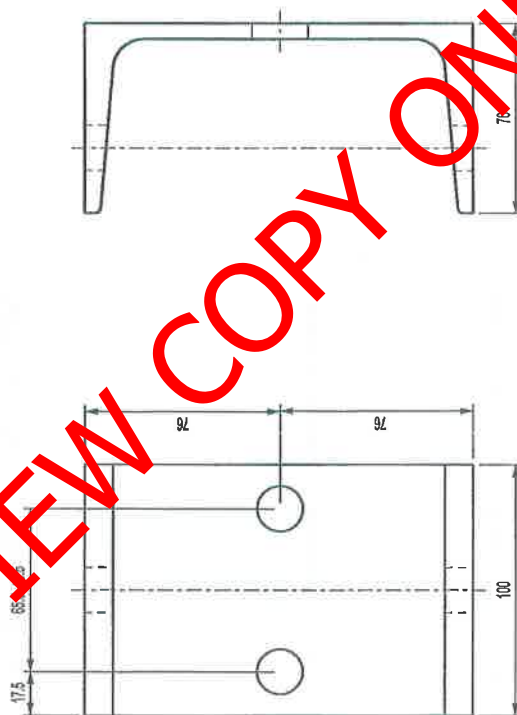
INFRASTRUCTURE (ELECTRICAL)

SPOORNET

CANTILEVER STRUT

25KV AC AUTO TENSIONED CONSTRUCTION

"PREVIEW COPY ONLY"



MASTER

2008-04-01



PROTECTION

MATERIAL	152 x 76 x 18 PARALLEL FLANGE CHANNEL (GRADE 43)
SPEC	BS EN 10025 - S275
FINISH	GALVANISED
SPEC	SANS121



TRANSPNET PROJECTS

ORE LINE RAIL EXPANSION PROJECT PHASE 1A

SISHEN SALDANHA RAILWAY LINE (TFR)
OHTE CATENARY SYSTEM
MAST BRACKET FOR SWIVEL
DRAWING DETAIL

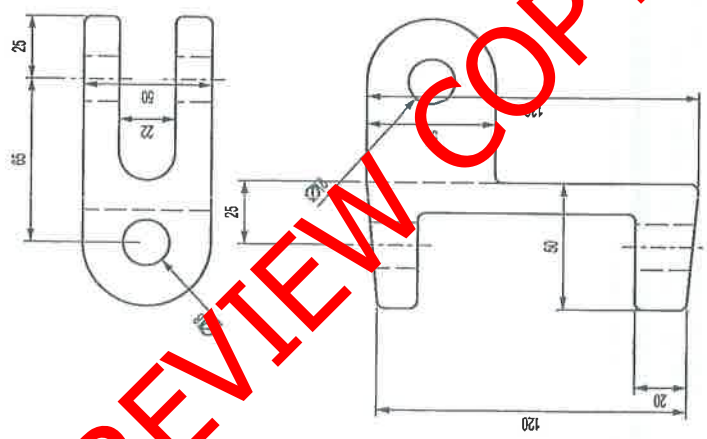
PROJECT NUMBER	DV	FBS	Q15	TYPE	DRG. NO.	SHT.	REV.	NO
100110-3		133	E	DE	0066	01	1	IV

SIZE:A3 DATE: 2006/12/05

"PREVIEW COPY ONLY"

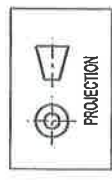
NOTES

1) ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED.














MASTER
2008-04-01
TRANSNET
TRANSNET PROJECTS

MATERIAL	SPHEROIDAL GRAPHITE IRON
SPEC	SANS 938 GRADE SG 60
FINISH	GALVANNEED
SPEC	SANS121



NOTES:

EPOCH CONSULTANT: HMG/N										ORIGINATOR: TP DESIGN			
TITLE		NAME	SIGNATURE	DATE	TITLE		NAME	SIGNATURE	DATE				
LEAD DES. ENG.		J. STRIDOM		27 03 08	TRAIN		R. PENFOLD		27 03 08				
ENG. COORD.		N. WELCH		27 03 08	CHECKED		D. WILCOCK		27 03 08				
ENG. NUMBER		I. SOUTHWOOD		27 03 08	ENG. COORD.								
AREA MANAGER		M. KEOBE		27 03 08	DISCIP. ENG.								
PROJECT MGR.					ENG. MANAGER								
CLIENT APPROVAL: TRANSMET FREIGHT RAIL		NAME	SIGNATURE	DATE	AREA MANAGER								
TITLE		NAME	SIGNATURE	DATE	SIGNAL ENG.								
SIN. ENG. (REC & SIG)		T. EMERSON		27 03 08	PR. ENG. / PR. TECH.								
SIN. TOWNSHIP/CONST. (REC & SIG)		M. MONZI		27 03 08	NAME		ANDRIES DE VET		DATE				
					SIGNATURE				27 03 08				
REVISIONS / ISSUE AUTHORIZATION													
NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE	SEC. NUMBER		9070204					
1	FOR CONSTRUCTION	RP	MDW		27/03/08	SEC. NUMBER							
A	FOR CLIENT APPROVAL	RP	DW	AJDW	13/03/08	SCALE		NIS					
This Document includes all design and information that is the intellectual and/or legal property of Transnet and/or HMG/N. Copyright in all other rights is reserved by Transnet and/or HMG/N. This Document may be used for its intended purpose.													
DATE													
DATE													

This Document including all design and information therein is Confidential Intellectual Property of Transnet and/or BNG IV. Copyright and all other rights are reserved by Transnet and/or BNG IV. This Document may only be used for its intended purpose.

TRANSNET
TRANSNET PROJECTS

ORE LINE RAIL EXPANSION PROJECT PHASE 1A

SISHEN SALDANHA RAILWAY LINE (TFR)
OHTE CATENARY SYSTEM
SWING BRACKET (CLEVIS TYPE)
DRAWING DETAIL