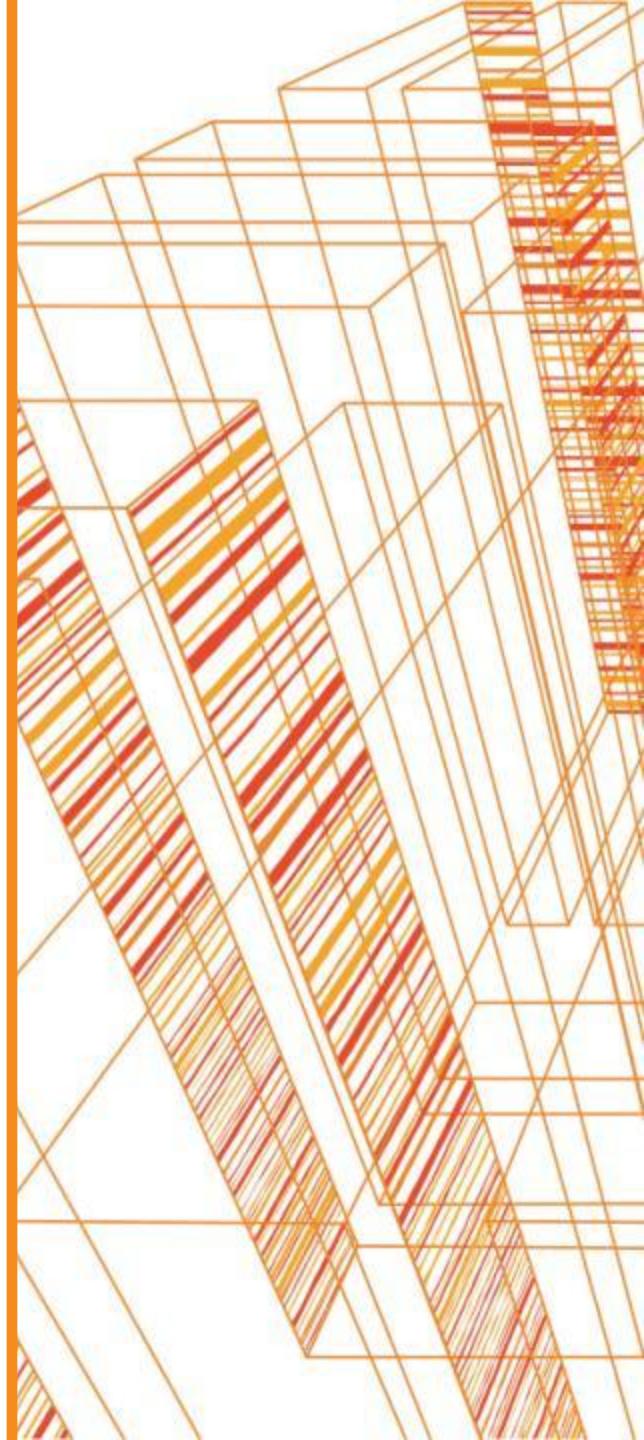


Functional Description of 80 Ton Raw Materials Side Discharge Gear Driven Wagon Tippler

**Highveld Steel
EMALAHLENI (WITBANK), SOUTH
AFRICA**

JUNE 2016



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Introduction

- Operational Description
- 80 Ton Tippler Drive specifications
- G.A. Drawing
- Photographs

Operational Description

Manufacturer

- Mitchell Engineering Limited Bedford Square London w.c.y.

Situated

- Highveld Steel Witbank Mpumalanga

Operational Description

The tippler operation starts by receiving raw material rail wagons being shunted from the railway siding, then shunting the wagon into position with the aid of its own side arm charger (The Mule) . The tippler then rotates with the loaded wagon until it reaches counterweight arms which then secures the loaded wagon into position. The tippler then rotates further until all the material is offloaded into a concrete hopper. The tippler then rotates back to its starting position with the empty wagon. Approximate offloading cycle is 5 minutes.

Raw materials which were offloaded into the hopper get spread over the length of the concrete hopper onto a conveyor belt by means of a motorised cable system plough.

80 Ton Tippler Drive Specifications

1 Rotating Mechanism Main Drive

- Electric Motor – 525 V – 738 rpm – 90 kW – Siemens.
- Gearbox – Serial No 54007 – Type SHDR – Size 450/630 – Ration 45-1 Crofts.

2 Side Arm Charger Bogie (The Mule) Main Drive

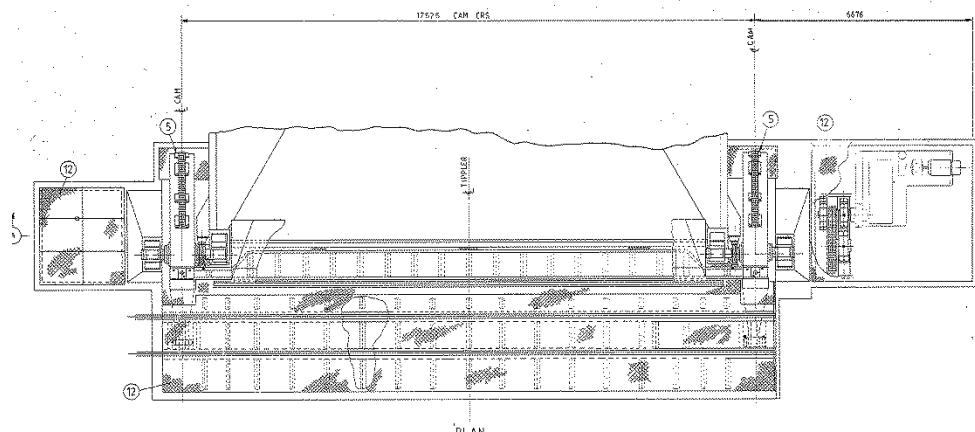
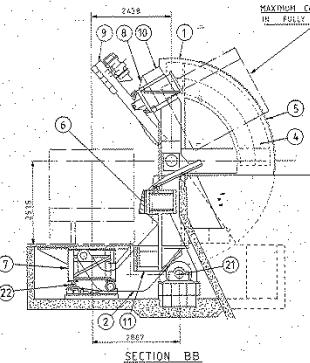
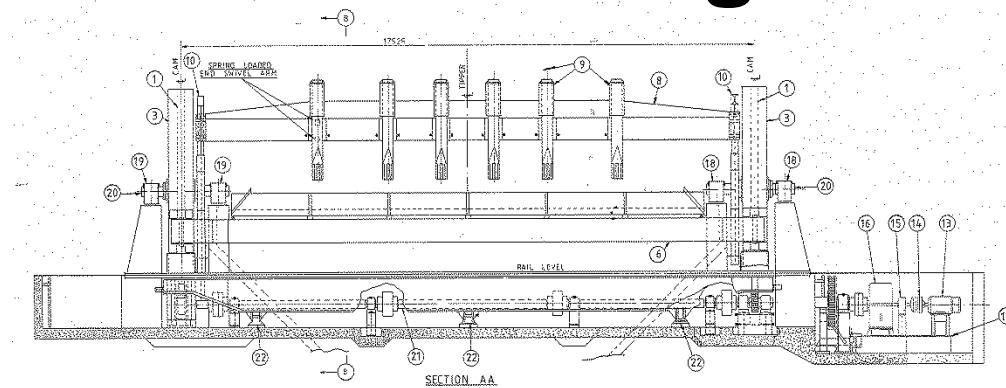
- Electric Motor – 525 V – 1475 RPM – 55 kW – Siemens.
- Gearbox – Hydraulic – Make Staffa.

3 Plough Main Drive

- Electric Motor – 525 V – 1440 rpm – 5.5 kW – Wen.
- Gearbox – Serial No 9803503 – Type 101 - 2 – Size 450/630 – Ratio 25-1 Crofts.

Drawing G.A. Layout

6



NCE DRAWINGS	
288 ✓	CROSSING MFC
122 ✓	WEISHO 17W-8013 WELD AT SITE
52 ✓	STREETS MFC
	WELD ALL ROUND
	GRID

ASCRINING SYMBOLS

WEISHO 17W-8013

WELD AT SITE

STREETS MFC

WELD ALL ROUND

GRID

A
DATE

B
DATE

C
DATE

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THE CONTRACTOR SHALL NOT COMMENCE WORK
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HIGHVELD STEEL & VANADIUM CORP. LTD.
PLANT AREA - IRON PLANT NO. 10

DRG. NO. H60M15
REV. 0

DHE DORBYL HEAVY ENGINEERING
BOKSBURG WORKS
DHE-MITCHELL - SIDE DISCHARGE, GEAR DRIVEN
WAGON TIPPLER
GENERAL ARRANGEMENT
BY DHE
DRAWN BY: N.T.S.
CHECKED BY: N.T.S.
APPROVED BY: N.T.S.
COST INDEX: 545003
DRG. No. 81-HS-01



Photographs



Environmental compliance

- The prospective bidder must determine all environmental legal responsibilities, in line with the prevailing legislation as may be amended from time to time, relating to the processes and activities to be undertaken by the prospective bidder and, if successful, to ensure full environmental compliance with such identified responsibilities. All planned processes and activities including any identified environmental responsibilities in relation thereto, will be made clear to Highveld in writing, as part of the bid process, to ensure a transparent relationship and agreement on the environmental compliance requirements. The prospective bidder must lead any discussions with the relevant environmental authorities and obtain the required environmental authorisations relating to the various environmental compliance requirements. The prospective bidder will carry all costs associated with such authorisations and discussions. Any supporting information required from Highveld relating to environmental concerns and compliance requirements must be identified by the prospective bidder and, if available, will henceforth be supplied by Highveld and not be unreasonably withheld, to support the drive of the prospective bidder towards environmental compliance.