

A collection of military medals and a compass are displayed on a wooden board. The board has a checkered pattern and several circular holes. The medals include a red ribbon with a circular emblem, a blue ribbon with a circular emblem, and two large silver star-shaped medals with intricate designs. A pair of glasses with thin metal frames and a compass with a white face and black markings are also visible.

TRUCK TIPPLER

**SUGARCANE HANDLING
SYSTEM**



A product designed, manufactured and
supplied by

M/s JUPITER TRADECON

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Why Truck Tippler ?



Truck Tippler offers the following benefits

- ◆ **TRUCK TIPPLER IS BEST SUITED TO HANDLE LOOSE FREE FLOWING RAW MATERIALS AND /OR FOR BULK FINISHED PRODUCTS**

- ◆ **IT FINDS USES IN FOLLOWING INDUSTRIES**
 - Sponge Iron Plants Unloading of Iron Ore, Coal, Limestone Etc.
 - Unloading sugarcane from trucks, tractor trolleys for Sugar Mills.
 - Unloading of coal for boilers of Thermal Power plants.
 - Unloading of coal ash generated at thermal power plants into ash dumps or ash ponds.
 - Unloading of bamboo, wood into hoppers for paper mills.



ECONOMIC BENEFIT

The economic usage is found in all industries where material in bulk is transported in trucks and require low cost unloading system which ensures :

- ◆ Fast operations.
- ◆ Minimum labour (One operator).
- ◆ Minimum turn around time (5–6 minute per truck).
- ◆ An important advantage being reduction of contract labour or workmen.
- ◆ **MOST IMPORTANTLY OUR SYSTEMS ENSURE CLEAN AND QUICK DISCHARGE OF HARVESTED CANE**



MODELS

- **FOUR MODELS AVAILABLE**
 - JTC - TT 35 T – 35 TON WITH TURNTABLE
 - JTC - TT 40 T – 40 TON WITH TURNTABLE
 - JTC - TT 30 – 30 TON WITHOUT TURNTABLE
 - JTC - TT 25 – 25 TON WITHOUT TURNTABLE



UTMOST NECESSITY FOR SUGAR MILLS ?

- ◆ TODAY MILLS ARE DEPENDENT ON CONTRACT LABOUR WHICH IS AT BEST UNRELIABLE.
- ◆ THE MILLS ARE UNABLE TO CRUSH THEIR ENTIRE SUGARCANE AND ARE FORCED TO SUFFER HUGE LOSSES DUE TO NO CANE/LOW CANE SITUATIONS.
- ◆ THE COST OF ONE HOUR OF IDLE TIME FOR AN AVERAGE 4000 TCD SUGAR FACTORY IS RS. 4,50,000/- .
- ◆ HENCE MECHANICAL HARVESTING IS THE ONLY SOLUTION.
- ◆ HARVESTED CANE IS BEST HANDLED AND FED TO CRUSHING MILLS THROUGH OUR TRUCK TIPPLER.



Various Types Of Trucks Handled:

- ◆ 3 Axle standard 20 T payload trucks manufactured by M/s TELCO, Ashok Leyland , Volvo.
- ◆ 2 axle standard trucks of all Indian manufactures.
- ◆ Two axle trolleys fixed both axles.
- ◆ Two axle trolleys with front steering axle.



➤ **SUITABILITY FOR SUGARCANE HARVESTING & COLLECTION**

- ❖ **CAPABLE OF HANDLING SUGAR CANE HARVESTED BY ALL TYPES OF HARVESTERS**
- ✓ **CHINESE HARVESTERS - FULL LENGTH SUGARCANE**
- ✓ **INDIGENOUS/IMPORTED HARVESTERS - SUGARCANE CUT IN PIECES**



SYSTEM COMPONENTS OF TRUCK TIPPLER

The tippler consists of :-

- Truck Parking And Locking Platform.
- Rear Axle Locating And Positioning System.
- Front Axle Locking Arrangement.
- Hydraulic Operated Turn Table (90°)
- Hydraulic System.
- Control Console And System.



QUALITY COMPONENTS

- ◆ HYDRAULIC & ELECTRICAL COMPONENTS OF HIGH QUALITY
- ◆ PUMPS – DENISON/VICKERS/REXROTH/YUKEN
- ◆ VALVES – VICKERS/REXROTH/YUKEN
- ◆ MOTOR – SIEMENS/ABB/CROMPTON/HINDUSTAN
- ◆ OIL TANK – LARGE CAPACITY
- ◆ HYDRAULIC CYLINDERS – HONED AND GROUND OF 250/350 BAR PRESSURE RATING
- ◆ RELAYS, LIMIT SWITCH – TEKNIK/SIEMENS/BCH/EQUIVALENT



SAFETY FEATURES

- Anti- burst Valves incorporated.
- Lifting Cylinders have provision of Non Return Valve in circuit to help Cylinders to remain in Hold position.
- All operations logic – sequential – limit switch based.

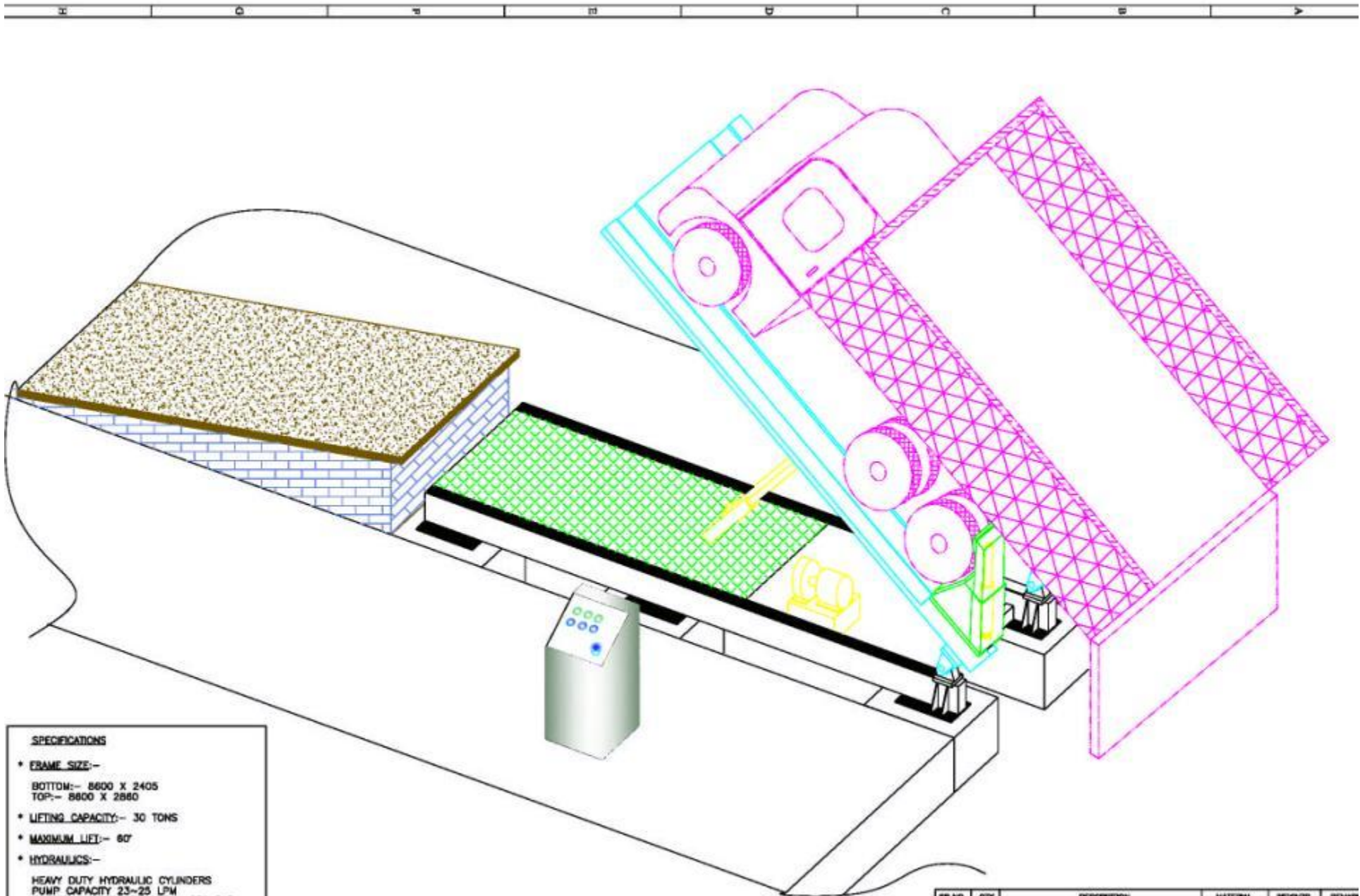


Operation of the Tippler:

- Truck (2 axle/3 axle), trailer etc. is positioned on the operating/tilting platform by bringing it in reverse gear till its rear axle/tyres abut with end stop.
- Trucks engine is stopped and driver demounts.
- Tippler operator then raises the rear stop cylinders after ensuring that rear axle tyres have physically touched the stops.
- There after, operator approaches the front axle of the truck and using chains and by wrapping around the axles he ensures the front axles are held.
- There after he operates the front axle locking cylinders which ensure that truck is fully located on tilting platform.
- Then he rotates the Truck through pre-determined rotation aligning the truck with Cane Carrier with help of the hydraulic operated Turn Table which rotates the Wheels mounted on guide Tracks.



- There after he opens the rear door of truck with help of driver and after locking the door at open position and clearing every body away from platform he slowly tilts the truck so that all material starts falling into hopper gradually till the truck is empty.
- There after, he brings the truck back to horizontal/original position.
- The truck is rotated back to position in line with exit
- The unlocking of truck is carried in reverse order.
- After unlocking he instructs the drive to drive away the truck.
- He can there after take another truck for tilting when the receiving hopper is empty.
- This operation is repeated again and again.



SPECIFICATIONS

- **FRAME SIZE:-**
 BOTTOM:- 8600 X 2405
 TOP:- 8600 X 2880
- **LIFTING CAPACITY:- 30 TONS**
- **MAXIMUM LIFE:- 80'**
- **HYDRAULICS:-**
 HEAVY DUTY HYDRAULIC CYLINDERS
 PUMP CAPACITY 23-25 LPM
 OPERATING PRESSURE 225 - 250 BAR
 TANK CAPACITY 200 LIT.
 MOTOR 15 HP/1450 RPM
 HYDRAULIC OIL - ENKLD N68/HYDROL 68

WARNING:
 THE DIMENSIONS AND THE DESIGN IF CHANGES ARE
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REV. NO.	REVISION	DATE	DRAWN	CHECKED

SR. NO.	QTY.	DESCRIPTION	MATERIAL	WEIGHTS	REMARKS
MAGADHA CONSULTANTS, 311 MPJ CHAMBERS, WAKADEWADI, PUNE-411002					
18-05-10	HTS	SCALE	DATE	CHK. NO. P/10/01	SHEET 1 OF 3
TITLE :- TRUCK TIPPER					
CLIENT :- MANDAR SHREERAM & CO					



