

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION Powai, Mumbai 400076

<u>Technical Specifications for Scissor for Z axis and Sand Spreader</u>

A. Scissor type Mechanism for Z axis

Designing as per concept design from RML

Ball screw and guide unit for motion

Motor mounting

Bellows for Sand Box

Fabrication and Manufacturing of Scissor mechanism

B. Belt Driven type Sand Spreader

Dual Belt Driven Actuators with total stroke 1500mm

1.4Nm Servo motor and Servo drive with EtherCAT

Gearbox Ratio 10:1

Power and feedback cables 5mtrs

Bellows for Belt driven actuators

Mechanical structure for Belt driven actuator system

Aluminium roller based conveyor

1.4Nm Servo motor and drive with EtherCAT

Gear box ratio 20:1

Power and feedback cable 5 mtrs

Aluminium Hopper

Fabrication and Manufacturing

With Installation.