

The stand consists of a Heavy Structural Steel Portal Style Frame with Integrated Loading Bay allowing Loading of the Bogies away from the Sensitive Measuring Instruments.

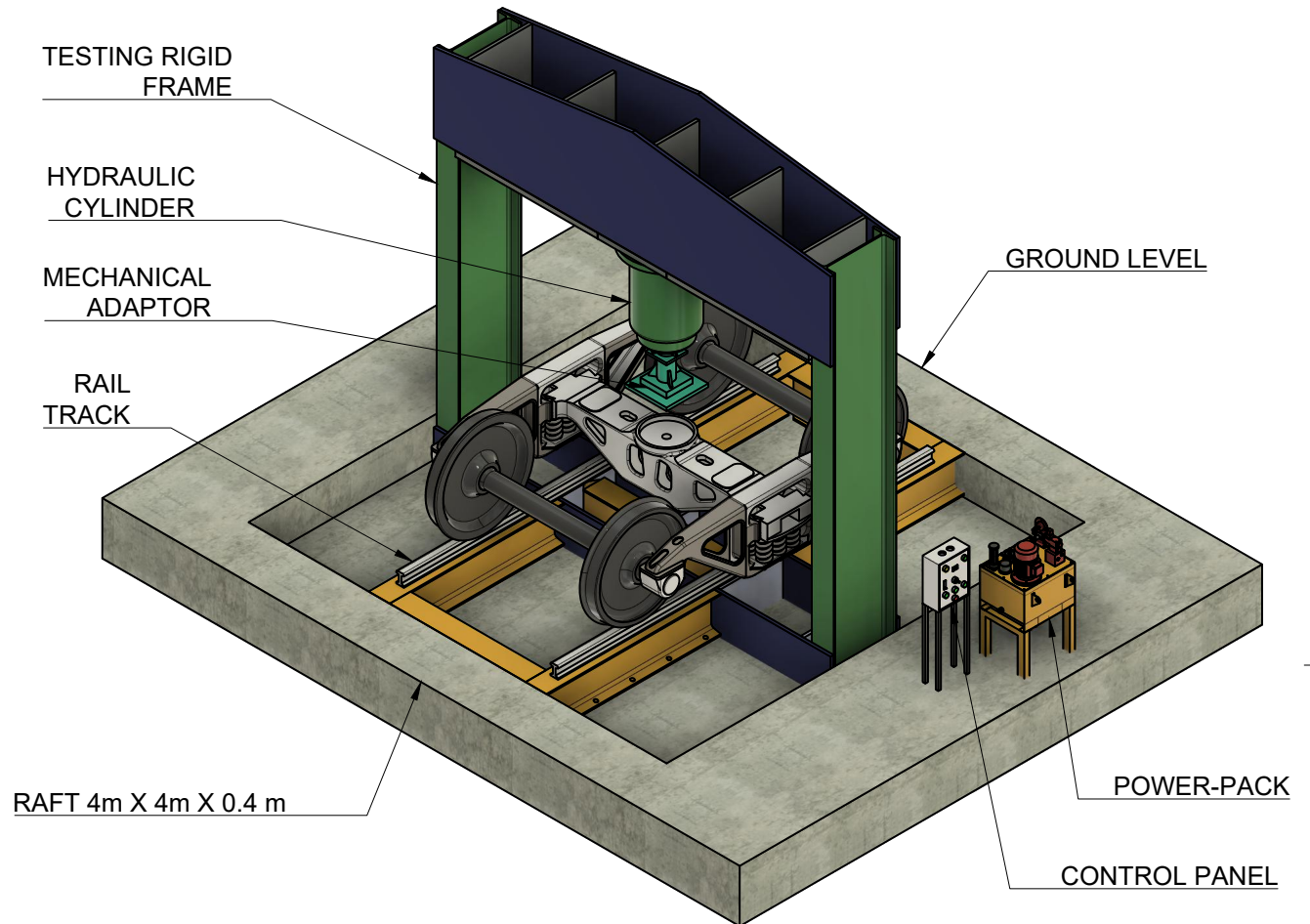
Once loaded, the Maintainer indexes and positions the Bogie inside the Portal Frame using an Integrated Chain Drive. Forces are then Applied to the Bogies using Adjustable High Capacity Hydraulic Cylinders with integrated Load Cells and Displacement Transducers.

The Primary Suspension Displacement caused by the application of this load is determined via the use of Electronic Displacement Transducers.

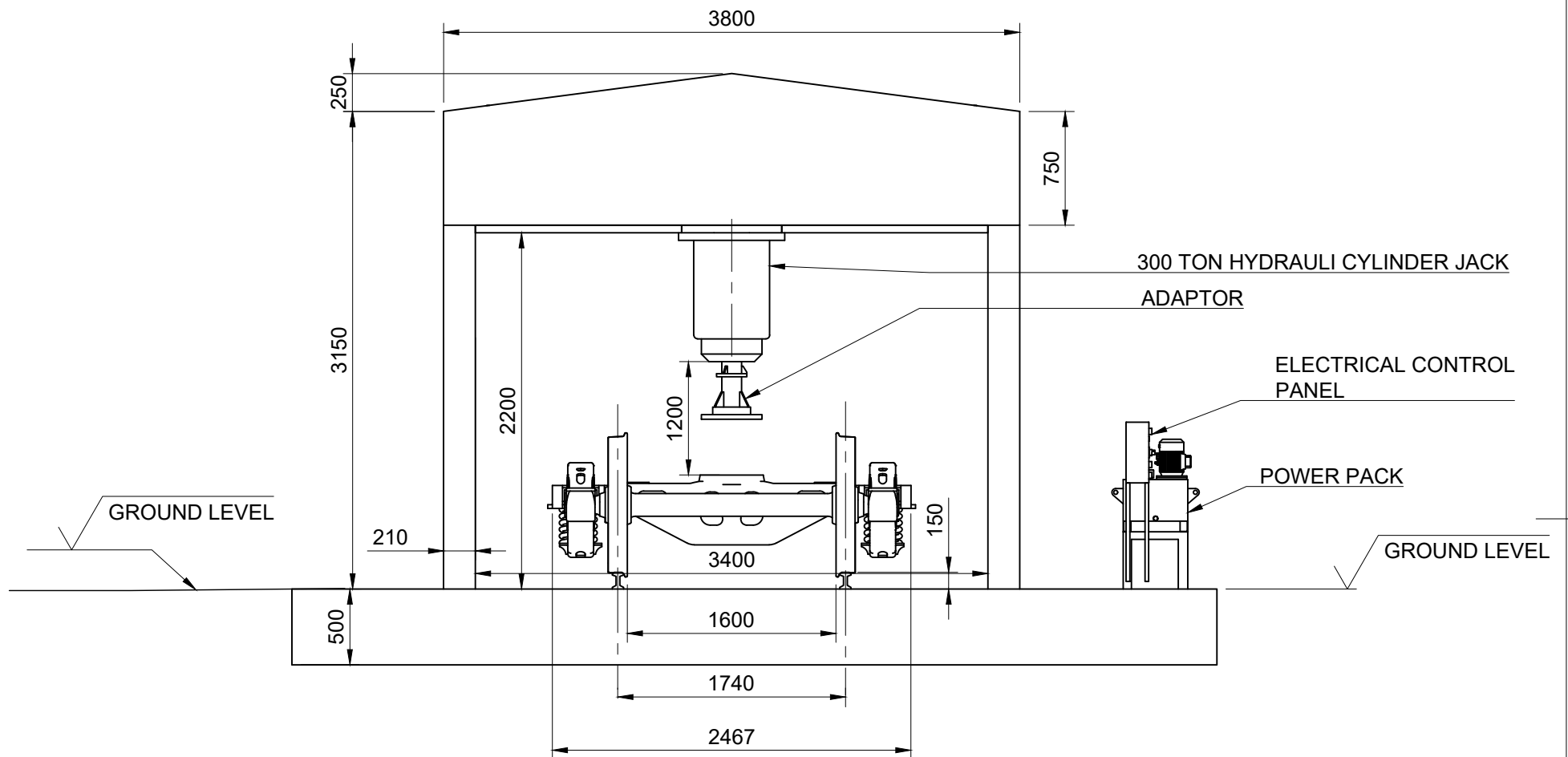
Once loaded, the Maintainer indexes and positions the Bogie inside the Portal Frame using an Integrated Chain Drive. Forces are then Applied to the Bogies using Adjustable High Capacity Hydraulic Cylinders with integrated Load Cells and Displacement Transducers. Machine Interface (HMI) uses the data to determine whether the Bogie complies with the Manufacturer's Specifications and determines the magnitude of adjustment required in the event of errors.

The continuous monitoring of the force displacement curves prevents damage in the case of defective springs and further allows the Maintainers to determine whether the Primary Suspension Springs are fit for purpose.

Data Capture and Reporting comes standard and Clients can network the machine to share the data with third party applications.

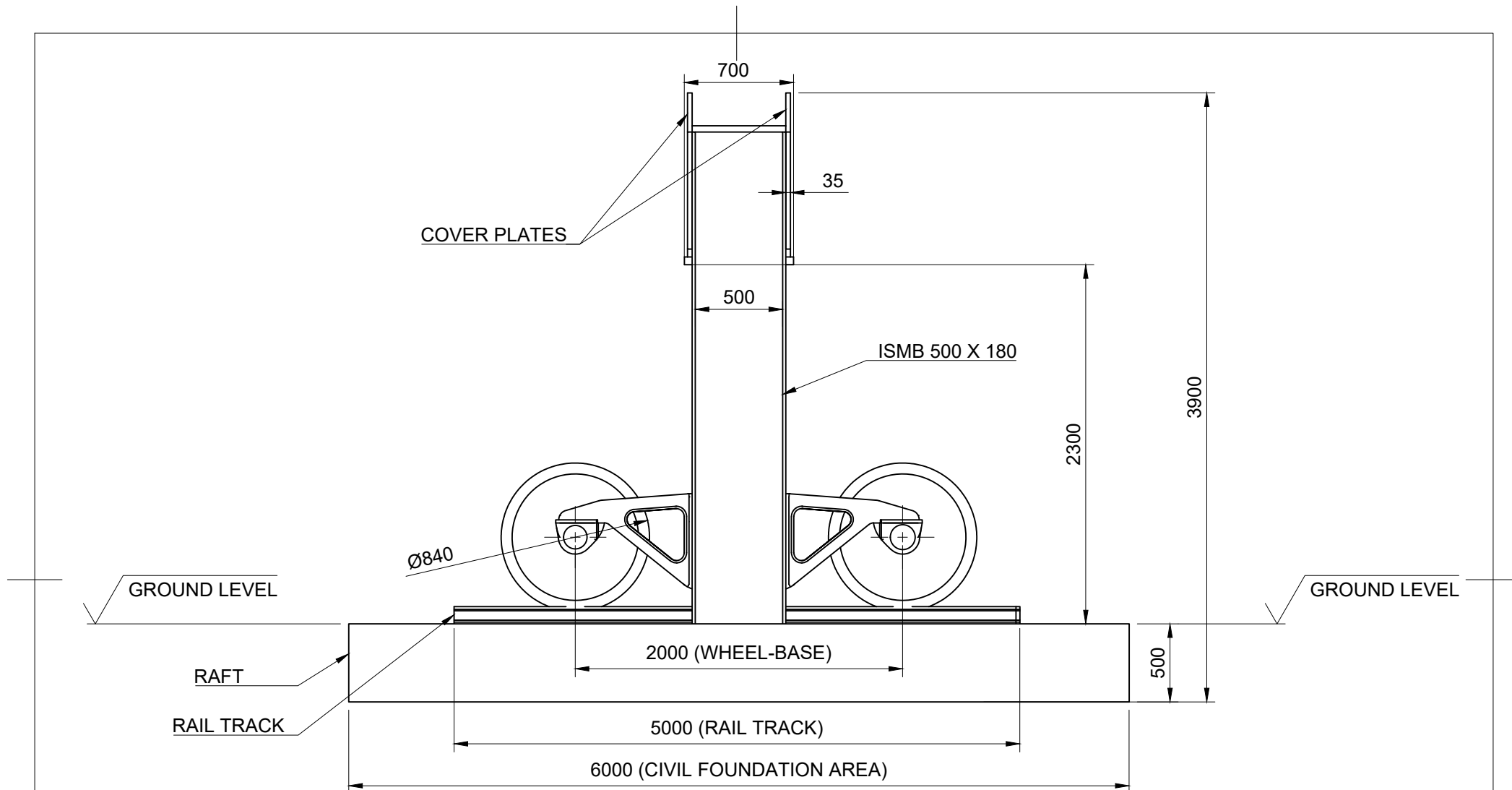


Dept.	Technical reference	Created by NK INSTRUMENTS 04-12-2023	Approved by		
1. Test Rig Frame Mass = 5.75 Ton Dimensions = 4m x 4m x 0.9m Material - Mild Steel IS:2062 2. Raft = 4000 x 500 (mm2) Foundation Capacity = 500 Ton		Document type GA LAYOUT DRAWING	Document status APPROVED		
		Title BOGIE LOAD TESTING MACHINE TESTING MACHINE 300 Ton Capacity	DWG No. NK-23-BLT-00		
		Rev.	Date of issue		Sheet 1/5

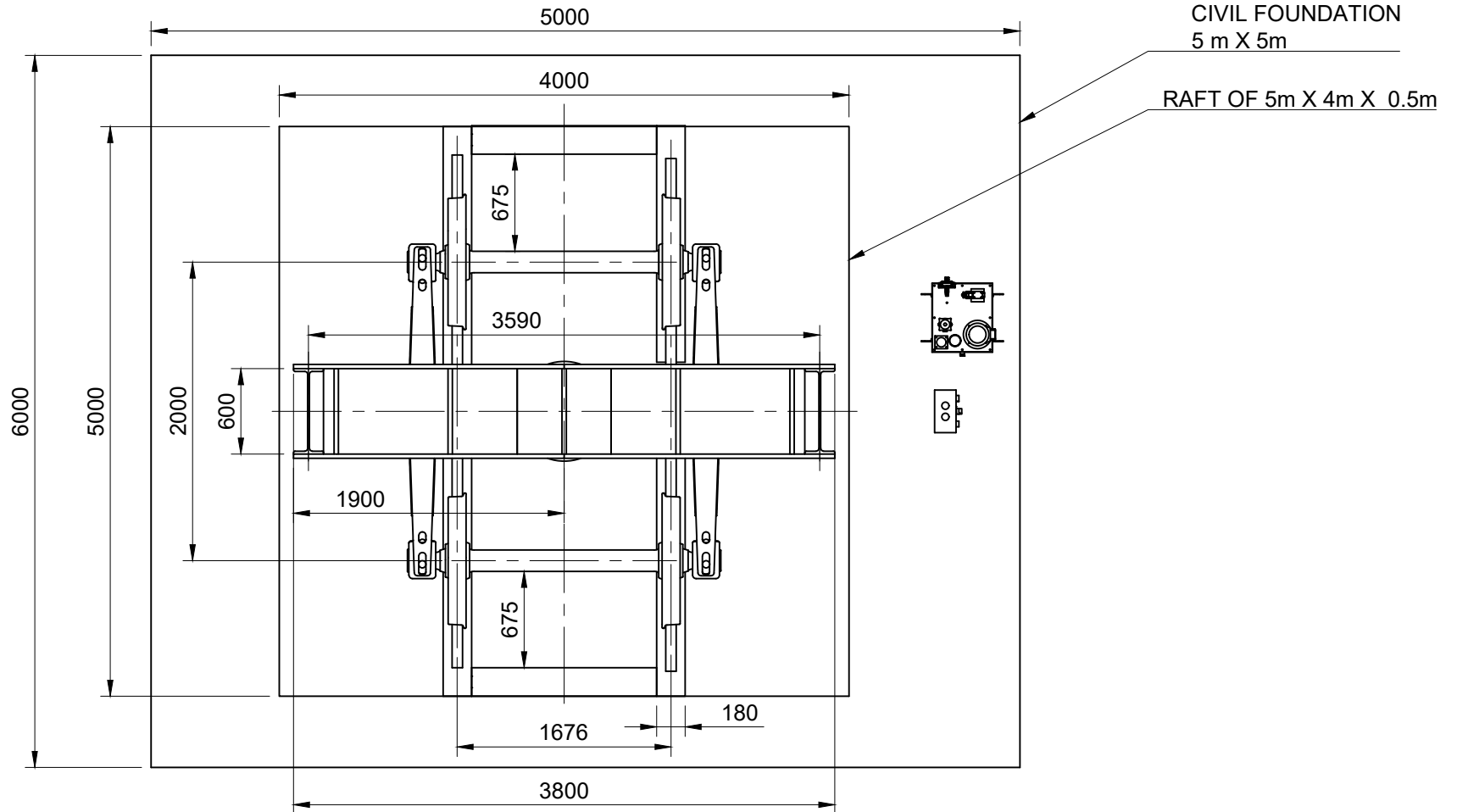


MACHINE SPECIFICATIONS :
 SIZE : 3800 X 3400 X 800
 DAYLIGHT = 1200 mm

Dept.	Technical reference	Created by NK INSTRUMENTS 04-12-2023	Approved by		
BOGGIE TYPE : LW LH 25 Wheel-base = 2000 mm Wheel Track = 1676 mm Maximum Axle Load = 25 Ton Maximum speed = 130 kmph Wheel Diameter = 840 mm Bogie Dry Weight = 5.45 Ton		Document type GA LAYOUT DRAWING	Document status APPROVED		
		Title BOGGIE LOAD TESTING MACHINE 3400(H) X 3800(L) X 900(W) FRONT VIEW	DWG No. NK-23-BLT-01		
		Rev.	Date of issue		Sheet 2/5



Dept.	Technical reference	Created by NK INSTRUMENTS 04-12-2023	Approved by	
		Document type GA LAYOUT DRAWING	Document status APPROVED	
		Title BOGGIE LOAD TEST MACHINE 5000 X 4000 X 700 SIDE VIEW	DWG No. NK-23-BLT-02	
			Rev.	Date of issue
			Sheet 3/5	

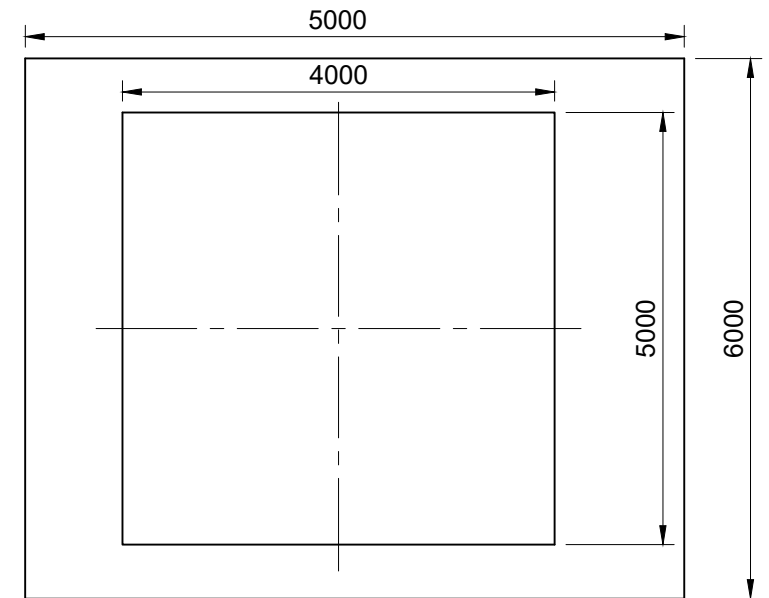


RAW MATERIAL DETAILS :

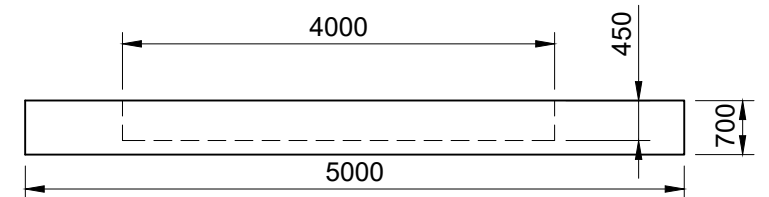
1. ISMB 500 x 180 x 17.5 (86)
2. FLAT PLATE 30-35 mm
3. IS RAIL SECTION (156 X 136 X 67) (56)
4. 24 mm ROD IS REQUIRED FOR CIVIL FOUNDATION ,

(18mm minimum size required)

Dept.	Technical reference	Created by NK INSTRUMENTS 04-12-2023	Approved by	
		Document type GA LAYOUT DRAWING	Document status APPROVED	
		Title BOGGIE LOAD TEST MACHINE 5000 X 4000 X 700 TOP VIEW	DWG No. NK-23-BLT-03	
			Rev.	Date of issue
			Sheet 4/5	



TOP VIEW LAYOUT



FRONT VIEW

EXCAVATION VOLUME : 21 CUB. MTRE

FOUNDATION : 6100 X 5000 X 700 (mm3)

RAFT : 5000 X 4000 X 450 (mm3)

FOUNDATION ROD = Ø22 - Ø24 mm ROD

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		Document type GA LAYOUT DRAWING	Document status APPROVED	
		Title BOGGIE LOAD TEST MACHINE 6000 X 5000 X 700 CIVIL FOUNDATION	DWG No. NK-23-BLT-04	
		Rev.	Date of issue	Sheet 5/5