



# METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,  
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

AN ISO 9001:2015 CERTIFIED

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## TEST REPORT

M/s Indo - Spark Construction Services  
Kolhapur

Test Report No.- G 9261  
Date - 14.02.2025

Your Ref. - Challan No. - 143

Date - 14.02.2025

Sample Description - Dia 14.56 mm

Material - 5.8

Batch No - M 16 / 12 B 25 / IAD

The above sample has been tested and results are as below

Chemical Analysis			
Element	Observed	Specified	
	%	Min	Max
C %	0.168	----	0.550
S %	0.018	-----	0.060
P %	0.022	-----	0.050

Hardness: - 92 HRB

Remark- Chemical report of sample material tested as meet with the requirement  
of IS 1367(Part 3) : 2002 Class 5.8

For Metasis Lab

Authorised Signature

P.T.O. Terms & Conditions

24/1/22

**METASIS LAB**  
**Tensile Test Report**

**Machine Model : TUE-C-400**  
Filename : G 9260.Utm

**Machine Serial No : 2009/72**  
Date : 16/02/2025

Customer Name : INDO SPARK CONSTRUCTION SERVICES  
Order Number : DIA-14.56 MM  
Lot Number : BATCH-M16/12B25/IAD  
Heat Number : GRADE-5.8  
Specimen Type : Mild Steel

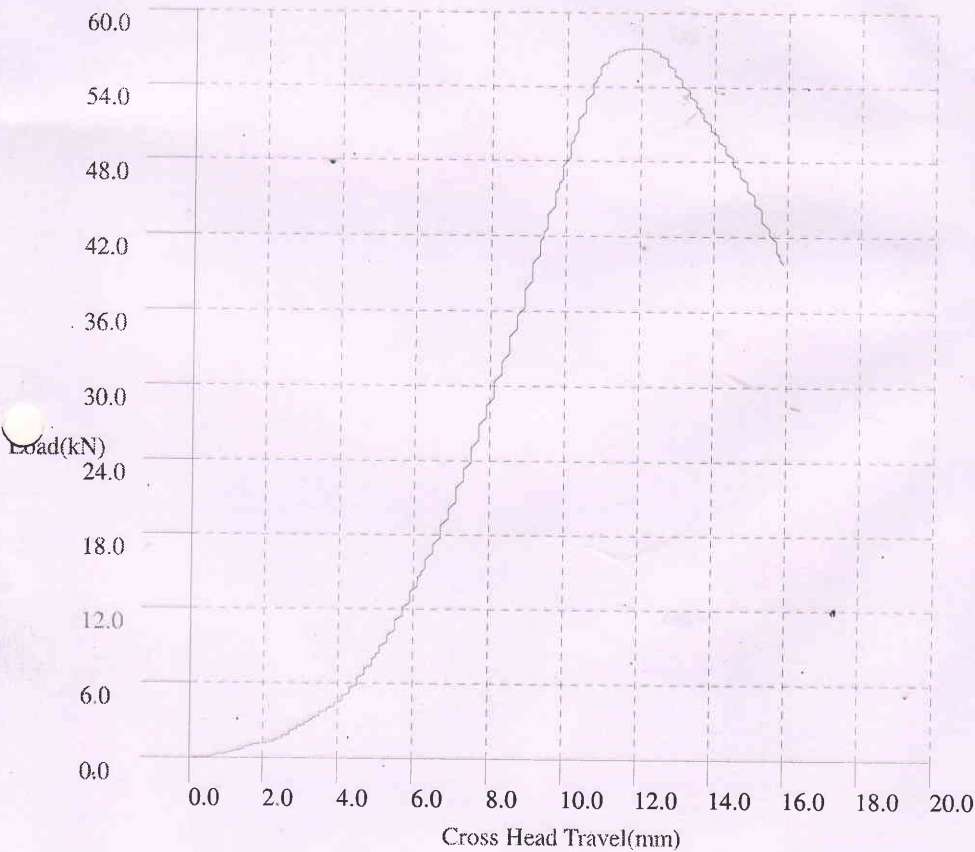
Initial Gauge Length (L0) : 50 mm  
Final Gauge Length (L1) : 55.20 mm  
Outer Diameter(Initial) : 9.9 mm  
Inner Diameter(Initial) : 0 mm  
Outer Diameter(Final) : 7.3 mm  
Inner Diameter(Final) : 0 mm

Peak Load : 57.12 kN  
Max. C.H.Travel : 12.1 mm  
Tensile Strength : 741.94 N/mm<sup>2</sup>  
Load at Yield : 53.44 kN  
C.H. Travel at Yield : 10.7 mm  
Yield Stress : 694.14 N/mm<sup>2</sup>  
Load at Break : 39.84 kN  
C.H. Travel at Break : 15.90 mm

% Elongation : 10.40 %  
% Reduction Area : 45.64 %

Test completed due to Specimen Break

Tested By : Vinayak



*Vinayak*

# Indo Spark Construction Services (Branded ICFS)

## Final Inspection Report

DRG NO M16200

PART NAME - M16 x190 CHEMICAL ANCHOR STUD

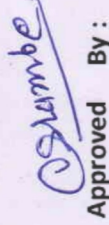
Date: 4/3/2025  
 Batch No: M16/12 B25 /IAD  
 Qty :

Sr. No.	Parameter	Specification	Instrument	Inspection Frequency	1	2	3	4	5
1	Hex Length	10.0 ± 0.2	Vernier	5 In Batch	10.12	10.18	10.14	10.16	10.12
2	Hex Length	11.7 ± 0.1	Micrometer	5 In Batch	11.71	11.73	11.75	11.76	11.73
3	Length	190 ± 0.3	Vernier	5 In Batch	190.2	190.21	190.18	190.15	190.21
4	Threading	M 16X 2	Thread Plug Gauge	5 In Batch	ok	ok	ok	ok	ok
5	Spectro	As Per ISO 898	Spectrometer	Report To Confirm	Report Attached				
6	Tensile Test Report	As Per ISO 898	Tensile Test Machine	Report To Confirm	Report Attached				
7	Zinc Plating Thickness	0.012 - 0.015	DFT Meter	5 In Batch	0.013	0.014	0.013	0.013	0.014
8	Torque moment	80 Nm	Tork rangek	5 In Batch	ok	ok	ok	ok	ok

**Other Parameters :**

- 1 Spectro Test Report No : G 9261
- 2 Tensile Test Report No : G9260
- 3 Hardness Test Report : 92 HRB
- 4 Heat Treatment Report No :

  
 Checked By :

  
 Approved By :

Spec	Specification	Value
C	5.8	8.8
P	0 - 0.55	0.15 - 0.4
S	0.05 Max	0.025 Max
	0.06 Max	0.025 Max

Spec	Value	Requirement
Hardness	5.8	82 - 95 HRB
Tensile Test	520 N/mm <sup>2</sup>	800 N/mm <sup>2</sup>
	8.8	22 - 32 HRC