



# BMT LABORATORIES LLP

Unit No. 10 & 20, Extension - I, Building. - I, Rajprabha Udyog Nagar, Golani Naka, Village Waliv, Vasai (East), Thane - 401 208. • Ph. : 96891 77700 • Mobile : 09689 557700 / 09689 457700  
Email : bmtlaboratories@gmail.com / sample.bmt@gmail.com • Website : www.bmtlaboratories.business.site  
(An ISO/IEC 17025, NABL Accredited Lab, CERT No. TC-6546)



TC-6546

## Test Report

Page 1 of 1

ULR - TC654625000000011F

Test Report No.	24022713		Report date	02-01-2025
Cust. Name & Add.	M/s Ananka Plot No.14, Survey No.96 & 97, Ashoka & Hitech Industrial Estate, Golani Naka, Waliv, Vasai East-401208.			
Ref./Challan No.	RG-102/24-25	Challan Date	31-12-2024	Sample Received On
Lab No.	24022713			Test Completed On
Specification	BS 970 Part 3:1991 Standard Grade 080M40 (EN 8)			
Sample Description	Round Bar			

Test : CHEMICAL ANALYSIS

Size 22 mm Dia.

### Chemical, Metal & Metal Alloys

#### CHEMICAL ANALYSIS

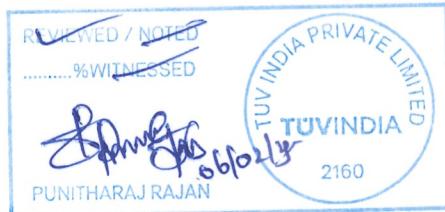
	Result	Requirement	Test Method
% Carbon (C)	0.407	0.360-0.440	ASTM E415:2021
% Silicon (Si)	0.216	0.100-0.400	ASTM E415:2021
% Manganese (Mn)	0.672	0.600-1.000	ASTM E415:2021
% Phosphorus (P)	0.0386	0.050 max.	ASTM E415:2021
% Sulphur (S)	0.0466	0.050 max.	ASTM E415:2021

Remark: The material conforms to BS 970 Part 3:1991 Standard Grade 080M40 (EN 8) with respect to results of test/s carried out.

.....END OF REPORT.....

For BMT LABORATORIES LLP  
Reviewed & Authorised by

Mrs. Padma Salunkhe  
(Tech. Mgr- Chem)



- The above test Results related only to the sample tested in this laboratory.
- The statement of compliance if mentioned in report is based on decision rule used by the lab.





## Test Report

Page 1 of 1

ULR - TC65462500000287F

Test Report No.	25000296	Report date	04-01-2025
Cust. Name & Add.	M/s Ananka Plot No.14, Survey No.96 & 97, Ashoka & Hitech Industrial Estate, Golani Naka, Waliv, Vasai East-401208.		
Ref./Challan No.	RPG-107/24-25	Challan Date	04-01-2025
Lab No.	25000296	Sample Received On	04-01-2025
Specification	SAE J404:2009 Standard Grade 4140		
Sample Description	Round Bar		

Test : CHEMICAL ANALYSIS

Size 29.60 mm Dia.

### Chemical, Metal & Metal Alloys

#### CHEMICAL ANALYSIS

#### Test Method : ASTM E415:2021

	Result	Requirement	Test Method
% Carbon (C)	0.419	0.380-0.430	ASTM E415:2021
% Silicon (Si)	0.261	0.150-0.350	ASTM E415:2021
% Manganese (Mn)	0.873	0.750-1.000	ASTM E415:2021
% Phosphorus (P)	0.0228	0.030 max.	ASTM E415:2021
% Sulphur (S)	0.0221	0.040 max.	ASTM E415:2021
% Chromium (Cr)	0.966	0.800-1.100	ASTM E415:2021
% Molybdenum (Mo)	0.187	0.150-0.250	ASTM E415:2021

Remark: The material conforms to SAE J404:2009 Standard Grade 4140 with respect to results of test/s carried out.

.....END OF REPORT.....

For BMT LABORATORIES LLP  
 Reviewed & Authorised by

Mrs. Padma Salunkhe  
 (Tech. Mgr- Chem)



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TC-6546

## Test Report

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ULR - TC654624000020712F

Test Report No.	24022209	Report date	25-12-2024
Cust. Name & Add.	M/s Ananka Plot No.14, Survey No.96 & 97, Ashoka & Hitech Industrial Estate, Golani Naka, Waliv, Vasai East-401208.		
Ref./Challan No.	RGD-89/24-25	Challan Date	25-12-2024
Lab No.	24022209	Sample Received On	25-12-2024
Specification	BS 970 Part 3:1991 Standard Grade 080M40 (EN 8)		
Sample Description	Round Bar		

Test : CHEMICAL ANALYSIS

Size 11 mm Dia.

### Chemical, Metal & Metal Alloys

#### CHEMICAL ANALYSIS

#### Test Method : ASTM E415:2021

	Result	Requirement
% Carbon (C)	0.426	0.360-0.440
% Silicon (Si)	0.250	0.100-0.400
% Manganese (Mn)	0.724	0.600-1.000
% Phosphorus (P)	0.0162	0.050 max.
% Sulphur (S)	0.0045	0.050 max.

Remark: The material conforms to BS 970 Part 3:1991 Standard Grade 080M40 (EN 8) with respect to results of test/s carried out.

.....END OF REPORT.....

For BMT LABORATORIES LLP

Reviewed &amp; Authorised by

Mrs. Padma Salunkhe  
(Tech. Mgr- Chem)



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TC-6546

## Test Report

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ULR - TC654624000018740F

Test Report No.	24020058		Report date	23-11-2024
Cust. Name & Add.	M/s Ananka Fasteners Plot No.14, Survey No.96 & 97, Ashoka & Hitech Industrial Estate, Golani Naka, Waliv, Vasai East-401208.			
Ref./Challan No.	RGP-1/24-25	Challan Date	22-11-2024	Sample Received On
Lab No.	24020058		Test Completed On	23-11-2024
Specification	BS 970 Part 3:1991 Standard Grade 080M40 (EN 8)			
Sample Description	Round Bar			

Test : CHEMICAL ANALYSIS

Size 14 mm Dia.

### Chemical, Metal & Metal Alloys

#### CHEMICAL ANALYSIS

#### Test Method : ASTM E415:2021

	Result	Requirement
% Carbon (C)	0.421	0.360-0.440
% Silicon (Si)	0.268	0.100-0.400
% Manganese (Mn)	0.641	0.600-1.000
% Phosphorus (P)	0.0363	0.050 max.
% Sulphur (S)	0.0355	0.050 max.

Remark: The material conforms to BS 970 Part 3:1991 Standard Grade 080M40 (EN 8) with respect to results of test/s carried out.

.....END OF REPORT.....



For BMT LABORATORIES LLP



Reviewed and Authorized By  
Mrs. Padma Salunkhe  
(Assistant Technical Manager)

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TC-6546

## Test Report

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ULR - TC654624000016534F

<b>Test Report No.</b>	24017763	<b>Report date</b>	10-10-2024
<b>Cust. Name &amp; Add.</b>	M/s Ananka Plot No.14, Survey No.96 & 97, Ashoka & Hitech Industrial Estate, Golani Naka, Waliv, Vasai East-401208.		
<b>Ref./Challan No.</b>	L342/24-25	<b>Challan Date</b>	10-10-2024
<b>Lab No.</b>	24017763	<b>Sample Received On</b>	10-10-2024
<b>Specification</b>	ASTM A276/A276M:2024 Standard Type 316		
<b>Sample Description</b>	Round Bar		

Test : CHEMICAL ANALYSIS

Size 16 mm Dia.

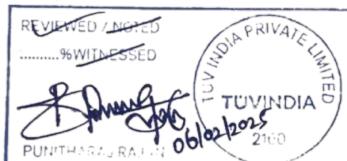
### Chemical, Metal & Metal Alloys

#### CHEMICAL ANALYSIS

	Result	Requirement	Test Method
% Carbon (C)	0.0550	0.080 max.	ASTM E1086:2022
% Silicon (Si)	0.527	1.000 max.	ASTM E1086:2022
% Manganese (Mn)	1.225	2.000 max.	ASTM E1086:2022
% Phosphorus (P)	0.0433	0.045 max.	ASTM E1086:2022
% Sulphur (S)	0.0256	0.030 max.	ASTM E1086:2022
% Chromium (Cr)	16.56	16.000-18.000	IS 9879:1998 (RA2021)
% Molybdenum (Mo)	2.04	2.000-3.000	ASTM E1086:2022
% Nickel (Ni)	10.03	10.000-14.000	ASTM E1086:2022

Remark: The material conforms to ASTM A276/A276M:2024 Standard Type 316 with respect to results of test/s carried out.

.....END OF REPORT.....



For BMT LABORATORIES LLP



Authorised Signatory  
Mrs. Padma Salunkhe  
(Assistant Technical Manager)



- The above test Results related only to the sample tested in this laboratory.
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This certificate is valid for the test of samples tested and issued on this date. Although samples can be re-submitted for re-testing, no re-testing will be done.





## Test Report

Page 1 of 1

ULR - TC654624000020172F

Test Report No.	24021599	Report date	17-12-2024
Cust. Name & Add.	M/s Ananka Plot No.14, Survey No.96 & 97, Ashoka & Hitech Industrial Estate, Golani Naka, Waliv, Vasai East-401208.		
Ref./Challan No.	RG-65/24-25	Challan Date	17-12-2024
Lab No.	24021599	Sample Received On	17-12-2024
Specification	BS 970 Part 3:1991 Standard Grade 080M40 (EN 8)		
Sample Description	Bright Bar		

Test : CHEMICAL ANALYSIS

Size 25 mm Dia.

### Chemical, Metal & Metal Alloys

#### CHEMICAL ANALYSIS

Test Method : ASTM E415:2021

	Result	Requirement
% Carbon (C)	0.438	0.360-0.440
% Silicon (Si)	0.193	0.100-0.400
% Manganese (Mn)	0.637	0.600-1.000
% Phosphorus (P)	0.0398	0.050 max.
% Sulphur (S)	0.0208	0.050 max.

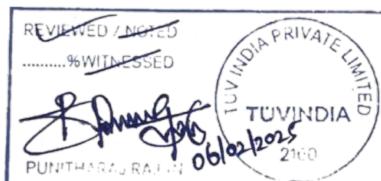
Remark: The material conforms to BS 970 Part 3:1991 Standard Grade 080M40 (EN 8) with respect to results of test/s carried out.

.....END OF REPORT.....

For BMT LABORATORIES LLP

Reviewed & Authorised by

Mrs. Padma Salunkhe  
(Tech. Mgr- Chem)



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\* This certificate is issued on the basis of our knowledge and understanding. Although every effort has been made to ensure correctness, BMT LLP is not liable for any errors.





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TC-6546

## Test Report

Page 1 of 1

ULR - TC654624000014827F

Test Report No.	24015920	Report date	12-09-2024
Cust. Name & Add.	M/s Ananka Plot No.14, Survey No.96 & 97, Ashoka & Hitech Industrial Estate, Golani Naka, Waliv, Vasai East-401208.		
Ref./Challan No.	L293/24-25	Challan Date	11-09-2024
Lab No.	24015920	Sample Received On	11-09-2024
Specification	ASTM A276/A276M:2024 Standard Type 316		
Sample Description	Round Bar		

Test : CHEMICAL ANALYSIS

Size 12 mm Dia.  
Order By: Mr. Karan

### Chemical, Metal & Metal Alloys

#### CHEMICAL ANALYSIS

	Result	Requirement	Test Method
% Carbon (C)	0.0399	0.080 max.	ASTM E1086:2022
% Silicon (Si)	0.448	1.000 max.	ASTM E1086:2022
% Manganese (Mn)	1.717	2.000 max.	ASTM E1086:2022
% Phosphorus (P)	0.0276	0.045 max.	ASTM E1086:2022
% Sulphur (S)	0.0156	0.030 max.	ASTM E1086:2022
% Chromium (Cr)	16.36	16.000-18.000	IS 9879:1998 (RA2015)
% Molybdenum (Mo)	2.02	2.000-3.000	ASTM E1086:2022
% Nickel (Ni)	10.11	10.000-14.000	IS 228 Part 23:2003 (RA2019)

Remark: The material conforms to ASTM A276/A276M:2024 Standard Type 316 with respect to results of test/s carried out.

.....END OF REPORT.....



For BMT LABORATORIES LLP



Authorised Signatory  
Mrs. Padma Salunkhe  
(Assistant Technical Manager)



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This certificate is subject to the terms of our conditions and understandings. Although every effort has been made to ensure accuracy, PDAUTIN



# TEST CERTIFICATE

Date : 04-01-2025

ananka  
vasai golani naka

To / Dept. : ananka  
Address : mumbai  
Part number :  
Part description :  
sample Identification : Round Bar  
Machine : Universal Testing Machine SERVO 1000 kN

**Input Data** File Name : TAUSIF , Record No. : 1

Sample Type : Round Solid Bar

Diameter : 14 mm

Height : 180.00 mm

## Results of Compression Test

Maximum Force (Fm) : 453.550 kN

Disp. at Fm : 7.82 mm

Max. Disp. : 7.830 mm

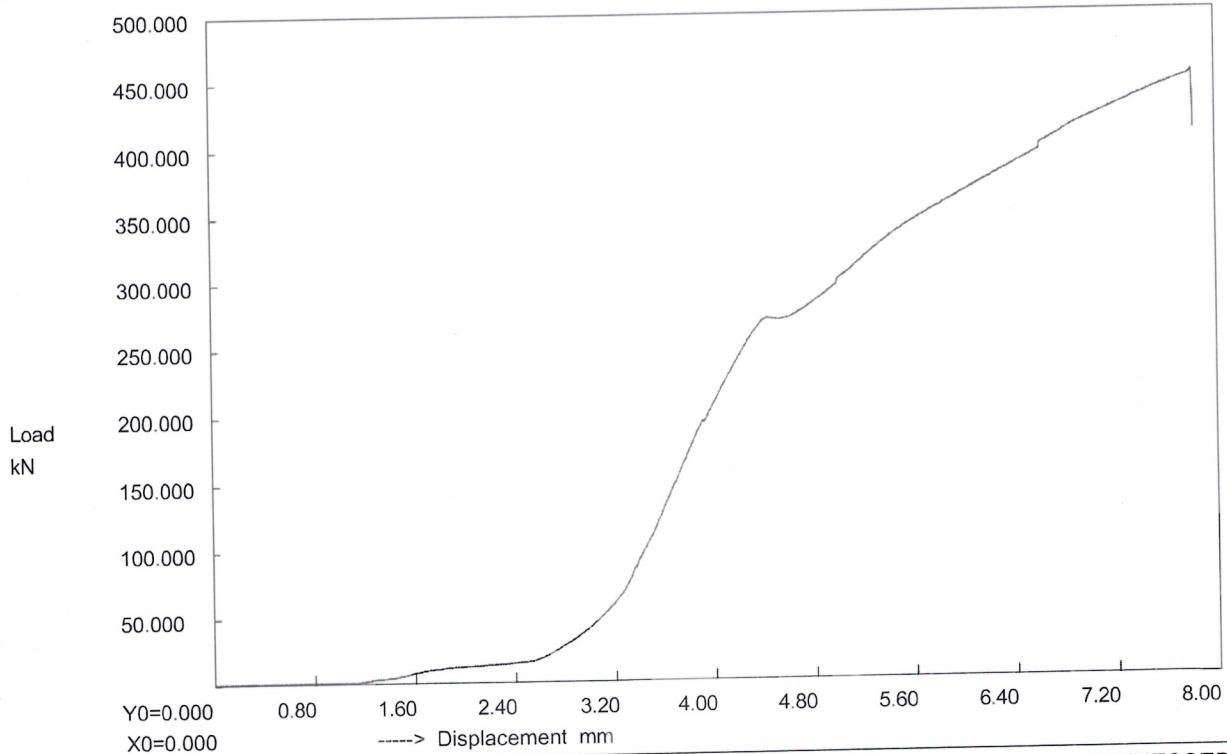
c/s Area (So) : 485.320 mm<sup>2</sup>

Compressive Strength : 499.549 MPa

## Results of Tension Test

Tensile strength (Rm) MPa	934.556
Elongation %	32.55
Reduction in Area %	60.12
Yield strength (Rp) MPa	755.530

Graph : Load Vs Displacement



TESTED BY

INSPECTED BY

WITNESSED BY



Date : 28-12-2024

**TEST CERTIFICATE**

**ananka**  
**vasai golani naka**

To / Dept.      ananka  
mumbai  
Machine      : Universal Testing Machine SERVO 1000 kN

**INPUT DATA :** File : sanjeevan kumar , Record : 1

Sample Identification : Round Bar SS 316

Final dia. : 10 mm

Part description : Part Number : SO 140

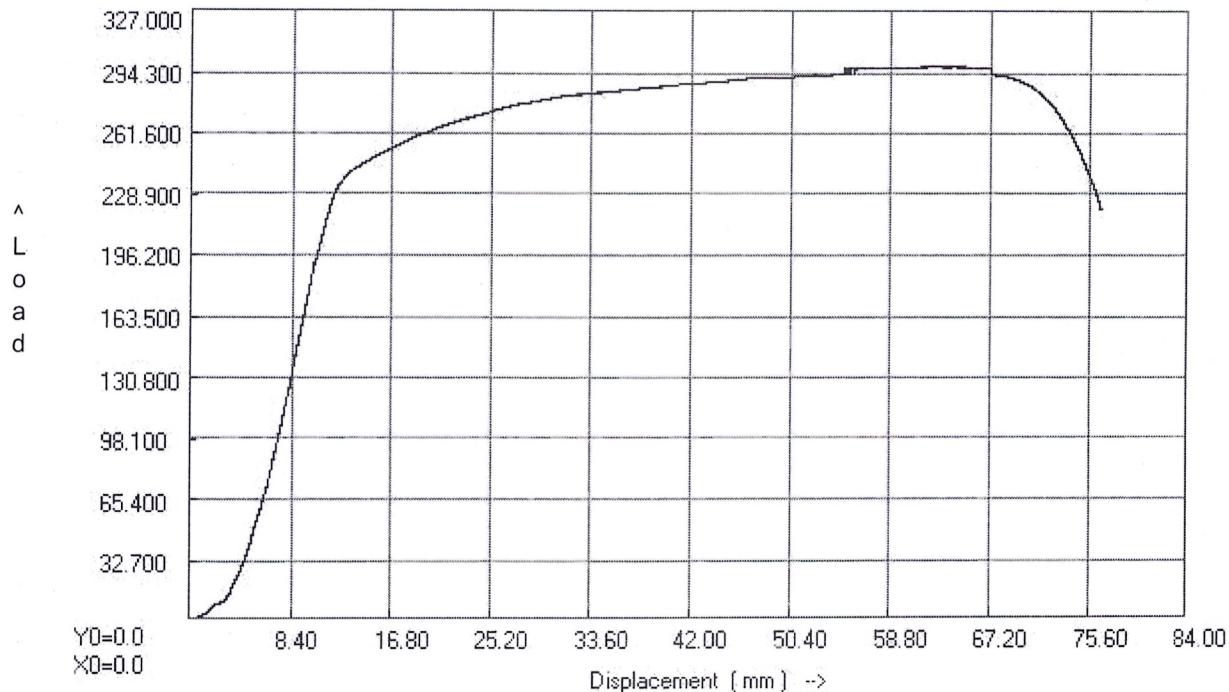
Sample Type : Round solid      Diameter (mm) : 12

C/S Area (mm<sup>2</sup>) : 380.132      Final Area (mm<sup>2</sup>) : 132.73

Original Gauge Length (mm) : 300.0      Final Gauge Length (mm) : 360.0

**Results of Tension Test**

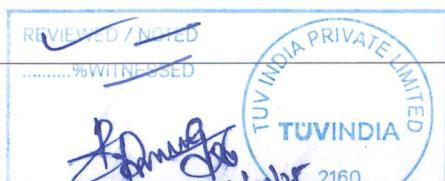
Maximum Force (Fm) kN	297.700
Disp. at Max. Load mm	61.92
Max. Displacement mm	76.50
Tensile strength (Rm) MPa	783.148
Elongation %	37.00
Reduction in Area %	65.083

**Graph : Load ( kN ) Vs Displacement ( mm )****Comment**

TESTED BY

INSPECTED BY

WITNESSED BY



# TEST CERTIFICATE

Date : 04-01-2025

**ananka**

vasai golani naka

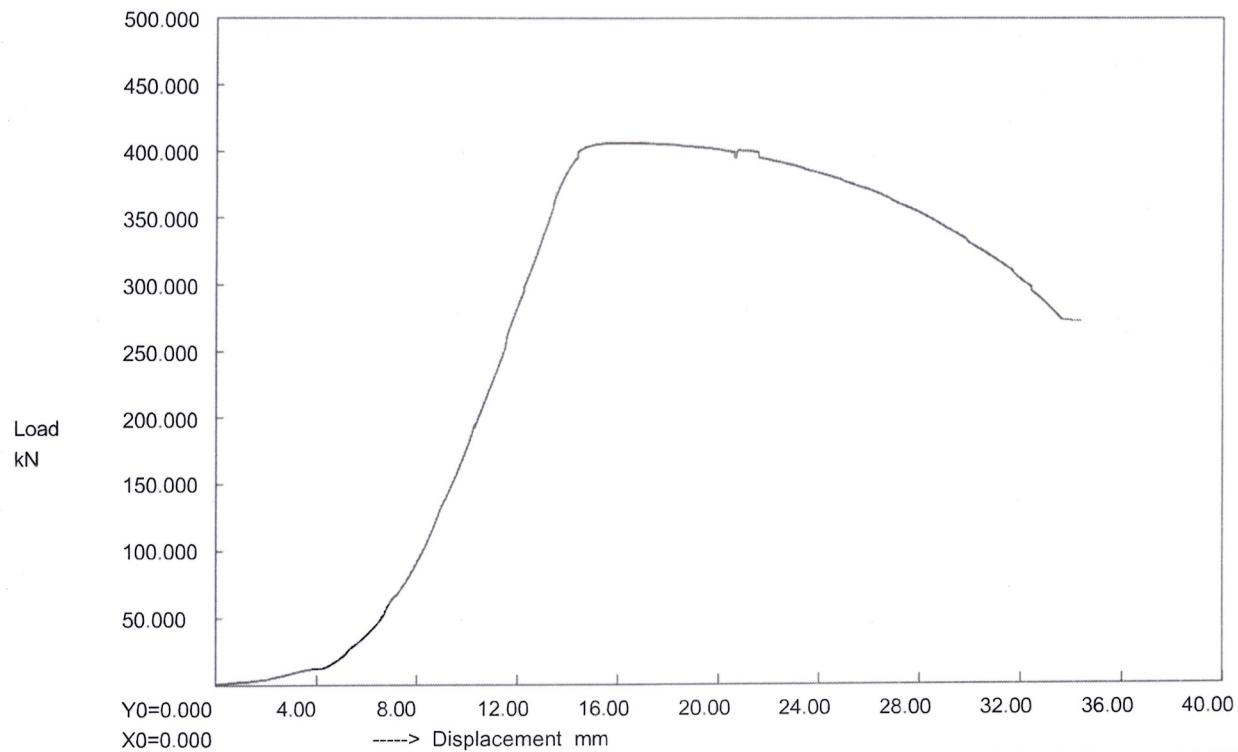
To / Dept. : ananka  
Address : mumbai  
Part number :  
Part description :  
sample Identification : Round Bar  
Machine : Universal Testing Machine SERVO 1000 kN

**Input Data** File Name : sanjeevan , Record No. : 1  
Sample Type : Round Solid Bar Area : 454.255 mm<sup>2</sup>  
Diameter : 16 mm Final Dia : 17.6 mm  
Length : 200 mm Final Gauge Length: 740 mm

## Results of Tension Test

Maximum Force (Fm) : 406.400 kN Elongation : 29.45 %  
Disp. at Fm : 16.18 mm Yield Load : 312.900 kN  
Max. Disp. : 34.380 mm Yield Strength (Re) : 688.824 MPa  
Reduction in Area (Z) : 60.75 % Stress Ratio Rm/Re : 2.495  
Tensile strength (Rm) : 894.651 MPa

Graph : Load Vs Displacement



TESTED BY

INSPECTED BY

WITNESSED BY



PUNITHARAJ RAJAN



# TEST CERTIFICATE

Date : 06-01-2025

**ananka**

vasai golani naka

To / Dept. : ananka  
Address : mumbai  
Part number :  
Part description :  
sample Identification : Round Bar  
Machine : Universal Testing Machine SERVO 1000 kN

**Input Data** File Name : sanjeevan g , Record No. : 1  
Sample Type : Round solid Bar  
Diameter : 25 mm  
Height : 185 mm

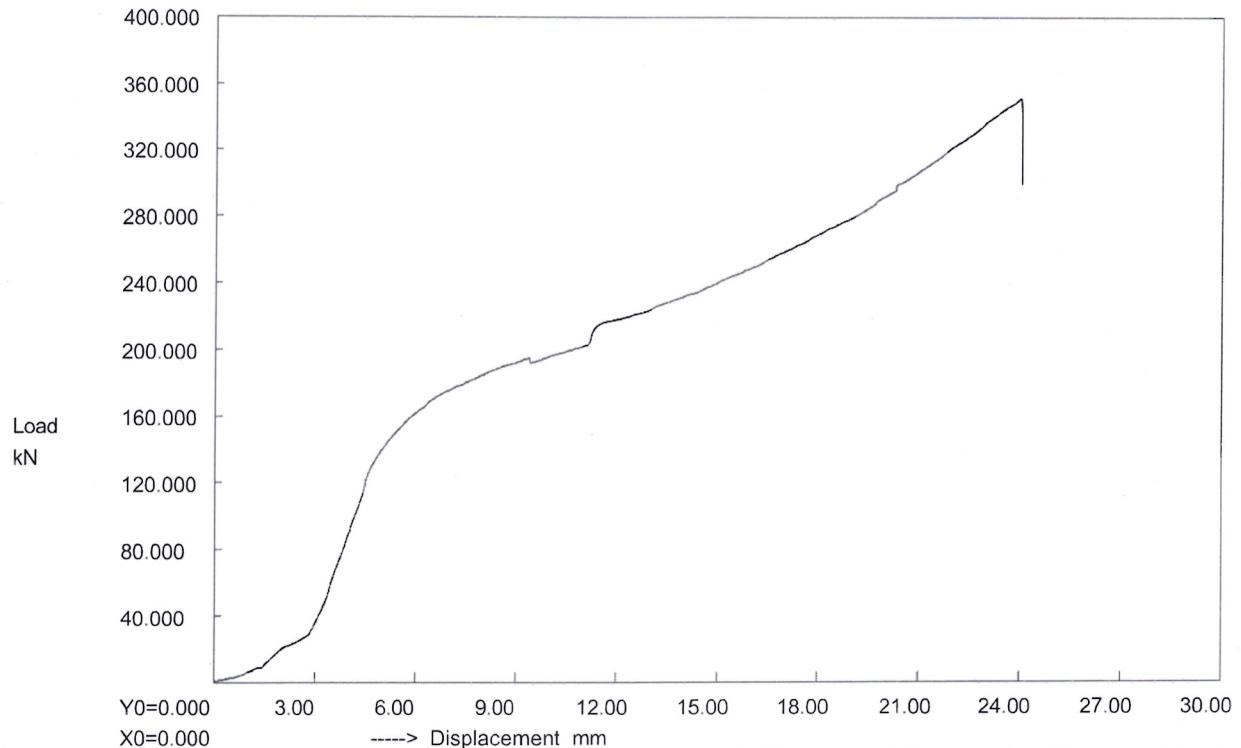
## Results of Compression Test

Maximum Force (Fm) : 351.350 kN  
Disp. at Fm : 23.98 mm  
Max. Disp. : 24.050 mm  
c/s Area (So) : 392.372 mm<sup>2</sup>  
Compressive Strength : 60.751 MPa

## Results of Tension Test

Tensile strength (Rm) MPa	895.451
Elongation %	31.67
Reduction in Area %	62.82
Yield strength (Rp) MPa	759.650

Graph : Load Vs Displacement



TESTED BY

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WITNESSED BY



# TEST CERTIFICATE

Date : 12-01-2025

**ananka**

vasai golani naka

To / Dept. : ananka  
Address : mumbai  
Part number :  
Part description :  
sample Identification : Round bar  
Machine : Universal Testing Machine SERVO 1000 kN

**Input Data** File Name : sanjeevan g , Record No. : 1  
Sample Type : Round solid Bar  
Diameter : 22 mm  
Height : 200 mm

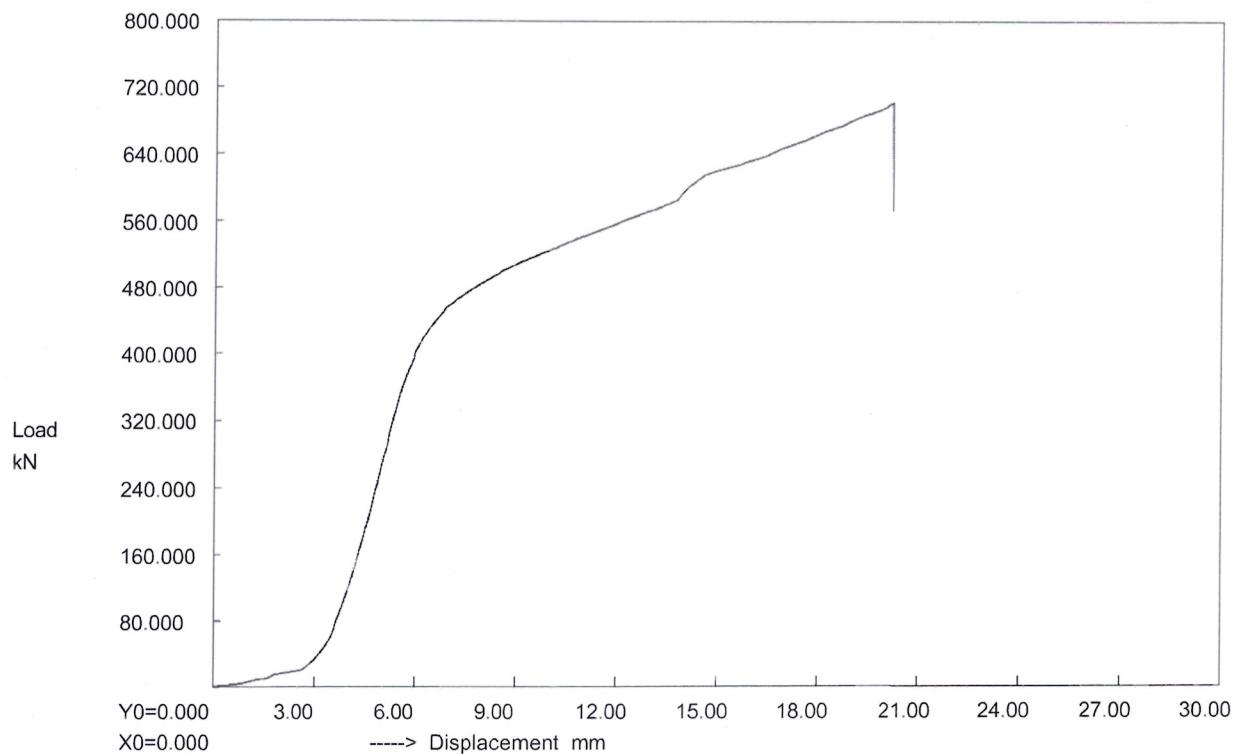
## Results of Compression Test

Maximum Force (Fm) : 702.800 kN  
Disp. at Fm : 20.20 mm  
Max. Disp. : 20.220 mm  
c/s Area (So) : 771.204 mm<sup>2</sup>  
Compressive Strength : 109.950 MPa

## Results of Tension Test

Tensile strength (Rm) MPa	911.302
Elongation %	31.11
Reduction in Area %	61.59
Yield strength (Rp) MPa	752.380

Graph : Load Vs Displacement



TESTED BY

INSPECTED BY

WITNESSED BY

