



CIVIL TECH LABORATORY

Kh. No. 48, Vill.- Belda, Near RTO Office, Roorkee, Distt.- Haridwar, U.K.- 247667

+91-9911860667, 8076576367 civiltechlabuk@gmail.com

www.civiltechlaboratory.com



TEST REPORT

Format No.: CTL/F/7.8/01

This report is not valid without a Hologram

Letter Ref.No.: 5170/1C, Dated: 03/11/2025

Sample Description: HYSD/TMT Bar (32 mm) (Reinforcement Steel)

Make: SEL Tiger

Issued To,

The Executive Engineer

Provincial Division, PWD

Haridwar, Uttarakhand

Location of Performance of Test: In Lab

Date of Performance of Test: 04/11/2025 to 10/11/2025

Addition to Deviation or Exclusion from the Method: NA

Name of Work: Construction of 240 M Span Double lane RCC Motor Bridge over Suswa River in Bullawala to Sattiwala Motor Road in District Dehradun.

Agreement No.: 12/U-PREPARE/23/BR/RFB-EPC/UGRIDP/2023, Dated: 18/09/2024

Name of Agency: M/s R. C. C. Developers, 109 City Centre, Children Park, Meerut, Uttar Pradesh

ULR No:TC1583225000000651F

Report Number: CTL/MECH/251104022A

Date of Report: 11/11/2025

Job Order No.: 251104022

Sample Received On: 04/11/2025

Sample Quantity: 01 Mtr X 03 Pcs.

Sample Condition: Satisfactory

Sample Drawn By: Customer

Environment Condition (Temp. & RH) : $25\pm 5^{\circ}\text{C}$ & NA



TC-15832

I-Mechanical Testing

Page No: 01 of 01

1-Mechanical Properties of Metals

S. No.	Test Parameter	Test-Method	Result	Requirement As per IS: 1786-2008 (Fe-550D)
1.	Yield stress, N/mm ²	IS:1608(Part-1): 2022	584	550 Min.
2.	Tensile Strength, N/mm ²	IS:1608(Part-1): 2022	689	600 Min.
3.	Tensile Strength/Yield Stress ratio	IS:1786: 2008	1.180	≥ 1.08
4.	% Elongation on Gauge Length $5.65\sqrt{A}$ Where A= Cross Sectional Area	IS:1608(Part-1): 2022	18.6	14.5 Min.
5.	Bend Test	IS:1599: 2019	Satisfactory	No rupture or crack in the bent portion
6.	Rebend Test	IS IS:1786: 2008 & IS:1599-2019	Satisfactory	No rupture or crack in the rebent portion
7.	Weight, kg/mtr.	IS:1786: 2008	6.24	$6.31\pm 3\%$

Reviewed By
Sujeet Kumar Sada
Quality Manager



*** End of Report ***



Auth. Sign.
R.K. Choudhary
Technical Manager

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Letter Ref.No.: 5170/1C, Dated: 03/11/2025

Report Number: CTL/MECH/251104022B

Sample Description: HYSD/TMT Bar (32 mm) (Reinforcement Steel)

Date of Report: 11/11/2025

Make: SEL Tiger

Job Order No.: 251104022

Issued To,

Sample Received On: 04/11/2025

The Executive Engineer

Sample Quantity: 01 Mtr X 03 Pcs.

Provincial Division, PWD

Sample Condition: Satisfactory

Haridwar, Uttarakhand

Sample Drawn By: Customer

Location of Performance of Test: In Lab

Environment Condition (Temp. & RH) : 25±5°C & NA

Date of Performance of Test: 04/11/2025 to 10/11/2025

Addition to Deviation or Exclusion from the Method: NA

Name of Work: Construction of 240 M Span Double lane RCC Motor Bridge over Suswa River in Bullawala to Sattiwala Motor Road in District Dehradun.

Agreement No.: 12/U-PREPARE/23/BR/RFB-EPC/UGRIDP/2023, Dated: 18/09/2024

Name of Agency: M/s R. C. C. Developers, 109 City Centre, Children Park, Meerut, Uttar Pradesh

I-Chemical Testing

Page No: 01 of 01

1-Metals & Alloys

S. No.	Test Parameter	Test-Method	Result	Requirement As per IS: 1786-2008 (Fe-550D)
1.	Carbon (as C), % by mass	IS:228 (Part-1):2025	0.14	0.25 Max.
2.	Sulphur (as S), % by mass	IS:228 (Part-9):1989	0.018	0.040 Max.
3.	Phosphorus (as P), % by mass	IS:228 (Part-3):2024	0.048	0.040 Max.
4.	Sulphur + Phosphorus, %	IS: 1786-2008	0.066	0.075 Max.

Sujeet
Reviewed By
Sujeet Kumar Sada
Quality Manager

*** End of Report***



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Letter Ref.No.: 5170/1C, Dated: 03/11/2025

Sample Description: HYSD/TMT Bar (20 mm) (Reinforcement Steel)

Make: SEL Tiger

Issued To,

The Executive Engineer

Provincial Division, PWD

Haridwar, Uttarakhand

Location of Performance of Test: In Lab

Date of Performance of Test: 04/11/2025 to 10/11/2025

Addition to Deviation or Exclusion from the Method: NA

Name of Work: Construction of 240 M Span Double lane RCC Motor Bridge over Suswa River in Bullawala to Sattiwala Motor Road in District Dehradun.

Agreement No.: 12/U-PREPARE/23/BR/RFB-EPC/UGRIDP/2023, Dated: 18/09/2024

Name of Agency: M/s R. C. C. Developers, 109 City Centre, Children Park, Meerut, Uttar Pradesh

ULR No:TC1583225000000652F

Report Number: CTL/MECH/251104023A

Date of Report: 11/11/2025

Job Order No.: 251104023

Sample Received On: 04/11/2025

Sample Quantity: 01 Mtr X 03 Pcs.

Sample Condition: Satisfactory

Sample Drawn By: Customer

Environment Condition (Temp. & RH) : 25±5°C & NA



TC-15832

I-Mechanical Testing

1-Mechanical Properties of Metals

Page No: 01 of 01

S. No.	Test Parameter	Test-Method	Result	Requirement As per IS: 1786-2008 (Fe-550D)
1.	Yield stress, N/mm ²	IS:1608(Part-1): 2022	581	550 Min.
2.	Tensile Strength, N/mm ²	IS:1608(Part-1): 2022	682	600 Min.
3.	Tensile Strength/Yield Stress ratio	IS:1786: 2008	1.17	≥ 1.08
4.	% Elongation on Gauge Length $5.65\sqrt{A}$ Where A= Cross Sectional Area	IS:1608(Part-1): 2022	19.1	14.5 Min.
5.	Bend Test	IS:1599: 2019	Satisfactory	No rupture or crack in the bent portion
6.	Rebend Test	IS IS:1786: 2008 & IS:1599-2019	Satisfactory	No rupture or crack in the rebent portion
7.	Weight, kg/mtr.	IS:1786: 2008	2.54	2.47±3%

Reviewed By
Sujeet Kumar Sada
Quality Manager



*** End of Report***



Auth. Sign.
R.K Choudhary
Technical Manager

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Letter Ref.No.: 5170/1C, Dated: 03/11/2025

Report Number: CTL/MECH/251104023B

Sample Description: HYSD/TMT Bar (20 mm) (Reinforcement Steel)

Date of Report: 11/11/2025

Make: SEL Tiger

Job Order No.: 251104023

Issued To,

Sample Received On: 04/11/2025

The Executive Engineer

Sample Quantity: 01 Mtr X 03 Pcs.

Provincial Division, PWD

Sample Condition: Satisfactory

Haridwar, Uttarakhand

Sample Drawn By: Customer

Location of Performance of Test: In Lab

Environment Condition (Temp. & RH) : $25\pm5^{\circ}\text{C}$ & NA

Date of Performance of Test: 04/11/2025 to 10/11/2025

Addition to Deviation or Exclusion from the Method: NA

Name of Work: Construction of 240 M Span Double lane RCC Motor Bridge over Suswa River in Bullawala to Sattiwala Motor Road in District Dehradun.

Agreement No.: 12/U-PREPARE/23/BR/RFB-EPC/UGRIDP/2023, Dated: 18/09/2024

Name of Agency: M/s R. C. C. Developers, 109 City Centre, Children Park, Meerut, Uttar Pradesh

I-Chemical Testing

Page No: 01 of 01

1-Metals & Alloys

S. No.	Test Parameter	Test-Method	Result	Requirement As per IS: 1786-2008 (Fe-550D)
1.	Carbon (as C), % by mass	IS:228 (Part-1):2025	0.18	0.25 Max.
2.	Sulphur (as S), % by mass	IS:228 (Part-9):1989	0.019	0.040 Max.
3.	Phosphorus (as P), % by mass	IS:228 (Part-3):2024	0.038	0.040 Max.
4.	Sulphur + Phosphorus, %	IS: 1786-2008	0.057	0.075 Max.

Sujeet
Reviewed By
Sujeet Kumar Sada
Quality Manager



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Letter Ref.No.: 5170/1C, Dated: 03/11/2025

Report Number: CTL/MECH/251104024B

Sample Description: HYSD/TMT Bar (16 mm) (Reinforcement Steel)

Date of Report: 11/11/2025

Make: SEL Tiger

Job Order No.: 251104024

Issued To,

Sample Received On: 04/11/2025

The Executive Engineer

Sample Quantity: 01 Mtr X 03 Pcs.

Provincial Division, PWD

Sample Condition: Satisfactory

Haridwar, Uttarakhand

Sample Drawn By: Customer

Location of Performance of Test: In Lab

Environment Condition (Temp. & RH) : 25±5°C & NA

Date of Performance of Test: 04/11/2025 to 10/11/2025

Addition to Deviation or Exclusion from the Method: NA

Name of Work: Construction of 240 M Span Double lane RCC Motor Bridge over Suswa River in Bullawala to Sattiwala Motor Road in District Dehradun.

Agreement No.: 12/U-PREPARE/23/BR/RFB-EPC/UGRIDP/2023, Dated: 18/09/2024

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I-Chemical Testing

Page No: 01 of 01

1-Metals & Alloys

S. No.	Test Parameter	Test-Method	Result	Requirement As per IS: 1786-2008 (Fe-550D)
1.	Carbon (as C), % by mass	IS:228 (Part-1):2025	0.12	0.25 Max.
2.	Sulphur (as S), % by mass	IS:228 (Part-9):1989	0.013	0.040 Max.
3.	Phosphorus (as P), % by mass	IS:228 (Part-3):2024	0.040	0.040 Max.
4.	Sulphur + Phosphorus, %	IS: 1786-2008	0.053	0.075 Max.

Sujeet
 Reviewed By
 Sujeet Kumar Sada
 Quality Manager

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Sample Description: HYSD/TMT Bar (16 mm) (Reinforcement Steel)

Make: SEL Tiger

Issued To,

The Executive Engineer
Provincial Division, PWD

Haridwar, Uttarakhand

Location of Performance of Test: In Lab

Date of Performance of Test: 04/11/2025 to 10/11/2025

Addition to Deviation or Exclusion from the Method: NA

Name of Work: Construction of 240 M Span Double lane RCC Motor Bridge over Suswa River in Bullawala to Sattiwala Motor Road in District Dehradun.

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Name of Agency: M/s R. C. C. Developers, 109 City Centre, Children Park, Meerut, Uttar Pradesh

ULR No:TC1583225000000653F

Report Number: CTL/MECH/251104024A

Date of Report: 11/11/2025

Job Order No.: 251104024

Sample Received On: 04/11/2025

Sample Quantity: 01 Mtr X 03 Pcs.

Sample Condition: Satisfactory

Sample Drawn By: Customer

Environment Condition (Temp. & RH) : 25±5°C & NA



TC-15832

I-Mechanical Testing

1-Mechanical Properties of Metals

Page No: 01 of 01

S. No.	Test Parameter	Test-Method	Result	Requirement As per IS: 1786-2008 (Fe-550D)
1.	Yield stress, N/mm ²	IS:1608(Part-1): 2022	554	550 Min.
2.	Tensile Strength, N/mm ²	IS:1608(Part-1): 2022	629	600 Min.
3.	Tensile Strength/Yield Stress ratio	IS:1786: 2008	1.135	≥ 1.08
4.	% Elongation on Gauge Length $5.65\sqrt{A}$ Where A= Cross Sectional Area	IS:1608(Part-1): 2022	15.3	14.5 Min.
5.	Bend Test	IS:1599: 2019	Satisfactory	No rupture or crack in the bent portion
6.	Rebend Test	IS IS:1786: 2008 & IS:1599-2019	Satisfactory	No rupture or crack in the rebent portion
7.	Weight, kg/mtr.	IS:1786: 2008	1.506	1.58±5%

Reviewed By
Sujeet Kumar Sada
Quality Manager



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