



# DEVBHOOMI TESTING LABORATORY DEHRADUN

NABL Accredited, Govt. Approved, MSME Registered, & ISO : 9001:2015 & 14001: 2015 Certified Laboratory

Neelkanth Enclave, Harbhajwala, Telpur Chowk, Shimla By Pass Road, Dehradun 248171

Mob: +91-7217360360, +91-7579118238, 8859392493, 9760764229

Email: devbhoomilab@gmail.com

## TEST REPORT

<b>Description of Sample:</b> Steel 08 mm Dia	<b>Make:</b> Shyam	<b>Report No.:</b> DTL/DDN/2024/2910/26
<b>Sample Id.:</b> 29102024/26		<b>Date of Report:</b> 31/10/2024
<b>Sample Quantity:</b> 1mtr. x 3 Nos.		<b>Date of Receipt:</b> 29/10/2024
<b>Sample Condition:</b> Receipt as OK		<b>Start Date of Testing:</b> 30/10/2024
<b>Sample Plan &amp; Sampling Method:</b> NA		<b>Date of Completion:</b> 31/10/2024
<b>Environment Condition (Temp. &amp; Humidity):</b> NA		
<b>Addition to, Deviation or Exclusion from the Method:</b> NA		
<b>Bond No:</b> 09/BR/RFB-EPC/UGRIDP/2023	<b>Dated:</b> 18/09/2024	
<b>N.O.W.:</b> 1. Construction of 24M Span Intermediate Lane Motor Bridge & its approach in KM-2 of Ujjawalpur to Gwad Dungri Jaspur Motor Road: 2. Construction of 48M Span Intermediate Lane Motor Bridge & its approach over Meeng Gadera in KM-1 of Gadhani Motor Road. 3. Construction of 48M Span Intermediate Lane Motor Bridge & its approach in KM-2 of Gairsan to Village Devlkot Motor Road in District Chamoli under EPC Mode.		
<b>Contractor:</b> M/S Umashankar Singh Rawat,		
<b>Issued to:</b> Umashankar Singh Rawat, Tharali Chamoli, Uttarakhand.		

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S. No.	Parameters	Test Value	Requirement as per IS-1786-2008 (Fe-500D)	Method of test
<b>I. Physical Properties: -</b>				
1.	Dia, mm	8		IS:1786-2008, RA:2018
2.	Wt, kg/m	0.397	$0.395 \pm 7\%$	IS:17862008,Amd.2,Reaff:2018
3.	Tensile strength, N/mm <sup>2</sup>	675.4	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm <sup>2</sup>	IS: 1608-2005Reaff: 2017
4.	Yield stress, N/mm <sup>2</sup>	573.7	500 Min.	IS: 1608-2005Reaff: 2017
5	TS/YS Ratio	1.18	$\geq 1.10$	By Calculation
6.	Elongation, %	19.32	16.0 Min.	IS: 1608-2005Reaff: 2017
7.	Bend test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019

\*\*\*\*\*End of Report\*\*\*\*\*



Devbhoomi  
Technical  
Manager  
Dehradun

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## TEST REPORT

<b>Description of Sample:</b> Steel 10 mm Dia	<b>Make:</b> Shyam	<b>Report No.:</b> DTL/DDN/2024/2910/27
<b>Sample Id.:</b> 29102024/27		<b>Date of Report:</b> 31/10/2024
<b>Sample Quantity:</b> 1mtr. x 3 Nos.		<b>Date of Receipt:</b> 29/10/2024
<b>Sample Condition:</b> Receipt as OK		<b>Start Date of Testing:</b> 30/10/2024
<b>Sample Plan &amp; Sampling Method:</b> NA		<b>Date of Completion:</b> 31/10/2024
<b>Environment Condition (Temp. &amp; Humidity):</b> NA.		
<b>Addition to, Deviation or Exclusion from the Method:</b> NA		
<b>Bond No:</b> 09/BR/RFB-EPC/UGRIDP/2023	<b>Dated:</b> 18/09/2024	
<b>N.O.W.:</b> 1. Construction of 24M Span Intermediate Lane Motor Bridge & its approach in KM-2 of Ujjawalpur to Gwad Dungri Jaspur Motor Road: 2. Construction of 48M Span Intermediate Lane Motor Bridge & its approach over Meeng Gadera in KM-1 of Gadhani Motor Road. 3. Construction of 48M Span Intermediate Lane Motor Bridge & its approach in KM-2 of Gairsan to Village Devlkot Motor Road in District Chamoli under EPC Mode.		
<b>Contractor:</b> M/S Umashankar Singh Rawat,		
<b>Issued to:</b> Umashankar Singh Rawat, Tharali Chamoli, Uttarakhand.		

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S. No.	Parameters	Test Value	Requirement as per IS:1786-2008, Reaff:2018(Fe500D)	Method of Test
<b>I. Physical Properties:-</b>				
1.	Dia, mm	10	-----	IS:1786-2008, RA:2018
2.	Weight, kg/m	0.618	0.617 ± 7%	IS:1786 2008,Amd.2,Reaff:2018
3.	Tensile Strength, N/mm <sup>2</sup>	672.8	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm <sup>2</sup>	IS: 1608-2005Reaff: 2017
4.	Yield Stress, N/mm <sup>2</sup>	579.1	500 Min.	IS: 1608-2005Reaff: 2017
5.	TS/YS Ratio	1.17	≥ 1.10	By Calculation
6.	Elongation, %	18.62	16.0 Min.	IS: 1608-2005Reaff: 2017
7.	Bend Test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019

\*\*\*\*\*End of Report\*\*\*\*\*



Technical Manager  
Dehradun

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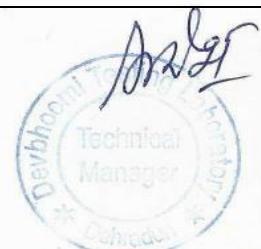
Email: devbhoomilab@gmail.com

## TEST REPORT

<b>Description of Sample:</b> Steel 12 mm Dia	<b>Make:</b> Shyam	<b>Report No.:</b> DTL/DDN/2024/2910/28
<b>Sample Id.:</b> 29102024/28		<b>Date of Report:</b> 31/10/2024
<b>Sample Quantity:</b> 1mtr. x 3 Nos.		<b>Date of Receipt:</b> 29/10/2024
<b>Sample Condition:</b> Receipt as OK		<b>Start Date of Testing:</b> 30/10/2024
<b>Sample Plan &amp; Sampling Method:</b> NA		<b>Date of Completion:</b> 31/10/2024
<b>Environment Condition (Temp. &amp; Humidity):</b> NA.		Page 1 of 1
<b>Addition to, Deviation or Exclusion from the Method:</b> NA		
<b>Bond No:</b> 09/BR/RFB-EPC/UGRIDP/2023	<b>Dated:</b> 18/09/2024	
<b>N.O.W.:</b> 1. Construction of 24M Span Intermediate Lane Motor Bridge & its approach in KM-2 of Ujjawalpur to Gwad Dungri Jaspur Motor Road: 2. Construction of 48M Span Intermediate Lane Motor Bridge & its approach over Meeng Gadera in KM-1 of Gadhani Motor Road. 3. Construction of 48M Span Intermediate Lane Motor Bridge & its approach in KM-2 of Gairsan to Village Devlkot Motor Road in District Chamoli under EPC Mode.		
<b>Contractor:</b> M/S Umashankar Singh Rawat,		
<b>Issued to:</b> Umashankar Singh Rawat, Tharali Chamoli, Uttarakhand.		

S.No.	Parameters	Test Value	Requirement as per IS:1786-2008, Reaff:2018(Fe500D)	Method of Test
<b>I. Physical Properties:-</b>				
1.	Dia, mm	12	-----	IS:1786-2008, RA:2018
2.	Weight, kg/m	0.884	0.888 ± 5%	S:1786:2008,Amd.2,Reaff:2018
3.	Tensile Strength, N/mm <sup>2</sup>	689.4	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm <sup>2</sup>	IS: 1608-2005Reaff: 2017
4.	Yield Stress, N/mm <sup>2</sup>	581.3	500 Min.	IS: 1608-2005Reaff: 2017
5.	TS/YS Ratio	1.19	≥ 1.10	By Calculation
6.	Elongation, %	19.86	16.0 Min.	IS: 1608-2005Reaff: 2017
7.	Bend Test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019

\*\*\*\*\*End of Report\*\*\*\*\*



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## TEST REPORT

<b>Description of Sample:</b> Steel 16 mm Dia	<b>Make:</b> Shyam	<b>Report No.:</b> DTL/DDN/2024/2910/29
<b>Sample Id.:</b> 29102024/29	<b>Date of Report:</b> 31/10/2024	
<b>Sample Quantity:</b> 1mtr. x 3 Nos.	<b>Date of Receipt:</b> 29/10/2024	
<b>Sample Condition:</b> Receipt as OK	<b>Start Date of Testing:</b> 30/10/2024	
<b>Sample Plan &amp; Sampling Method:</b> NA	<b>Date of Completion:</b> 31/10/2024	
<b>Environment Condition (Temp. &amp; Humidity):</b> NA.		
<b>Addition to, Deviation or Exclusion from the Method:</b> NA		
<b>Bond No:</b> 09/BR/RFB-EPC/UGRIDP/2023	<b>Dated:</b> 18/09/2024	
N.O.W.: 1. Construction of 24M Span Intermediate Lane Motor Bridge & its approach in KM-2 of Ujjawalpur to Gwad Dungri Jaspur Motor Road: 2. Construction of 48M Span Intermediate Lane Motor Bridge & its approach over Meeng Gadera in KM-1 of Gadhani Motor Road. 3. Construction of 48M Span Intermediate Lane Motor Bridge & its approach in KM-2 of Gairsan to Village Devlkot Motor Road in District Chamoli under EPC Mode.		
<b>Contractor:</b> M/S Umashankar Singh Rawat,		
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S. No.	Parameters	Test Value	Requirement as per IS:1786-2008, Reaff:2018(Fe500D)	Method of Test
<b>I. Physical Properties:-</b>				
1.	Dia, mm	16	-----	IS:1786-2008, RA:2018
2.	Weight, kg/m	1.582	1.58 ± 5%	IS:1786 2008,Amd.2,Reaff:2018
3.	Tensile Strength, N/mm <sup>2</sup>	693.2	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm <sup>2</sup>	IS: 1608-2005Reaff: 2017
4.	Yield Stress, N/mm <sup>2</sup>	578.3	500 Min.	IS: 1608-2005Reaff: 2017
5.	TS/YS Ratio	1.20	≥ 1.10	By Calculation
6.	Elongation, %	21.36	16.0 Min.	IS: 1608-2005Reaff: 2017
7.	Bend Test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019

\*\*\*\*\*End of Report\*\*\*\*\*



Devbhoomi  
Technical Manager  
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## TEST REPORT

Description of Sample: Steel 20 mm Dia	Make: Shyam	Report No.: DTL/DDN/2024/2910/30
Sample Id. : 29102024/30	Date of Report: 31/10/2024	
Sample Quantity: 1mtr. x 3 Nos.	Date of Receipt: 29/10/2024	
Sample Condition: Receipt as OK	Start Date of Testing: 30/10/2024	
Sample Plan & Sampling Method: NA	Date of Completion: 31/10/2024	
Environment Condition (Temp. & Humidity): NA.		
Addition to, Deviation or Exclusion from the Method: NA		
Bond No: 09/BR/RFB-EPC/UGRIDP/2023	Dated: 18/09/2024	
N.O.W.: 1. Construction of 24M Span Intermediate Lane Motor Bridge & its approach in KM-2 of Ujjawalpur to Gwad Dungri Jaspur Motor Road: 2. Construction of 48M Span Intermediate Lane Motor Bridge & its approach over Meeng Gadera in KM-1 of Gadhan Motor Road. 3. Construction of 48M Span Intermediate Lane Motor Bridge & its approach in KM-2 of Gairsan to Village Devlkot Motor Road in District Chamoli under EPC Mode.		
Contractor: M/S Umashankar Singh Rawat,		
Issued to:		
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S. No.	Parameters	Test Value	Requirement as per IS:1786-2008, Reaff:2018(Fe500D)	Method of Test
<b>I . Physical Properties:-</b>				
1.	Dia, mm	20	-----	IS:1786-2008, RA:2018
2.	Weight, kg/m	2.469	2.47 ± 3%	IS:1786 2008,Amd.2,Reaff:2018
3.	Tensile Strength, N/mm <sup>2</sup>	712.8	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm <sup>2</sup>	IS: 1608-2005Reaff: 2017
4.	Yield Stress, N/mm <sup>2</sup>	592.6	500 Min.	IS: 1608-2005Reaff: 2017
5.	TS/YS Ratio	1.20	≥ 1.10	By Calculation
6.	Elongation, %	21.73	16.0 Min.	IS: 1608-2005Reaff: 2017
7.	Bend Test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019

\*\*\*\*\*End of Report\*\*\*\*\*

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## TEST REPORT

<b>Description of Sample:</b> Steel 25 mm Dia	<b>Make:</b> Shyam	<b>Report No.:</b> DTL/DDN/2024/2910/31
<b>Sample Id.:</b> 29102024/31	<b>Date of Report:</b> 31/10/2024	
<b>Sample Quantity:</b> 1mtr. x 3 Nos.	<b>Date of Receipt:</b> 29/10/2024	
<b>Sample Condition:</b> Receipt as OK	<b>Start Date of Testing:</b> 30/10/2024	
<b>Sample Plan &amp; Sampling Method:</b> NA	<b>Date of Completion:</b> 31/10/2024	
<b>Environment Condition (Temp. &amp; Humidity):</b> NA.		
<b>Addition to, Deviation or Exclusion from the Method:</b> NA		
<b>Bond No:</b> 09/BR/RFB-EPC/UGRIDP/2023	<b>Dated:</b> 18/09/2024	
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<b>Contractor:</b> M/S Umashankar Singh Rawat,		
<b>Issued to:</b> Umashankar Singh Rawat, Tharali Chamoli, Uttarakhand.		

Page 1 of 1

S. No.	Parameters	Test Value	Requirement as per IS:1786-2008, Reaff:2018 (Fe500D)	Method of Test
I.	<b>Physical Properties:-</b>			
1.	Dia, mm	25	-----	IS:1786-2008, RA:2018
2.	Weight, kg/m	3.848	3.85 ± 3%	IS:1786 2008,Amd.2,Reaff:2018
3.	Tensile Strength, N/mm <sup>2</sup>	716.7	10% more than actual 0.2% proof stress/yield stress but not less than 565 N/mm <sup>2</sup>	IS: 1608-2005 Reaff: 2017
4.	Yield Stress, N/mm <sup>2</sup>	589.5	500Min.	IS: 1608-2005 Reaff: 2017
5.	TS/YS Ratio	1.21	≥1.10	By Calculation
6.	Elongation, %	21.24	16.0 Min.	IS: 1608-2005 Reaff: 2017
7.	Bend Test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019

\*\*\*\*\*End of Report\*\*\*\*\*

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