



# SHRI DWARKADHISH TESTING LABS & RESEARCH CONSULTANCY

(NABL Accredited Laboratory) TC-7017

All Type of Soil, Building & Highway Construction Material Testing & Consultancy Services

## TEST REPORT

Report No.:- 234 B/25	Booking No.:- 187 A/25
Date of sample Received:- 24/06/2025	Date of Issue:- 28/06/2025
Name and Address of Customer:- Executive Engineer, C.D.-II (A.D.B.), P.W.D., Nainital.	
Name of Work:- Khand ke antargat Ramnagar Kaladhungi Chorgaliya Sitarganj Bijti ke Km. 82 mein Sher Naala mein 120meter span double lane R.C.C. Pre-Stress Concrete setu ka nirmaan karya.	
Agreement No. 08/Uprepare/13/BRR/RFB/UGIDP Dated- 03/07/2024	
Customer Ref No.:- 372/U. Prepare	Dated:- 21/06/2025
Name of Sample:- Steel Bar 'Shyam' 20mm	Condition of sample:- Sealed
Test Start Date:- 25/06/2025	Test Completion Date:- 28/06/2025
Discipline:- Mechanical	Group:- Building Material

## TESTING DETAIL

S. No.	Test Parameter	Result	Requirement As Per IS:1786-2008, RA 2018 (Fe-550D)	Test Method
<b>Physical Parameter</b>				
1.	Weight, kg/m	2.405	2.470 - 4%	IS:1786-2008 RA 2018
2.	Cross Section Area (mm <sup>2</sup> )	306.37	-----	IS:1786-2008 RA 2018
3.	Tensile Stress, (Mpa)	695.10	600 Min.	IS:1608 (P-1) 2022
4.	Yield Stress, (Mpa)	178.37	0.2% proof stress/ Yield stress, Min. 550 N/mm <sup>2</sup>	IS:1608 (P-1) 2022
5.	TS/YS Ratio	1.19	≥1.08	By Calculation
6.	Elongation, %	48.6%	14.5Min.	IS:1608 (P-1) 2022
7.	Bend Test	Satisfactory	Not transverse crack should occur in the bent portion	IS:1599-2019
8.	Re-Bend Test	Satisfactory	No fracture should occur in the bent portion	IS:1786-2008 RA 2018
<b>Chemical Parameter</b>				
1.	Carbon, %	0.15	0.25 Max.	IS:228(P-1)1987 RA 2018
2.	Sulphur, %	0.030	0.040 Max.	IS:228(P-9)1989 RA 2019
3.	Phosphorus, %	0.027	0.040 Max.	IS:228(P-3)1987 RA 2018
4.	Sulphur + Phosphorus, %	0.057	0.075 Max.	-----

- Note:
1. Test result is based on the sample received by our laboratory.
  2. Test result relates only to the item tested.
  3. The report cannot be used for legal purpose without written approval of the lab.
  4. All the mention tests have been done from external sources.

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

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