



NS EPOXY AND FABRICATION SOLUTIONS PVT. LTD.

TEST CERTIFICATE FOR FUSION BONDED EPOXY COATED REINFORCEMENT BARS
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IS : 13620



CM/L - 6300100174

Test Certificate No. 06162

MS NAVAYUGA ENGINEERING COMPANY LTD.

Date: 18-10-2024

We certify that the material described below fully conforms to IS: 1786-2008 Chemical composition and mechanical properties of the product as tested in accordance with the scheme of Testing and Inspection contained in the ISI certification Marks

License No. CM/L 6300100174 are as indicated against each other.

Order No.	Nominal Size(mm)	Lot No.	Quantity (MT)	Date of Testing	TEST RESULT													F B E COATING PROPERTIES		
					CHEMICAL ANALYSIS					MECHANICAL PROPERTIES								Thickness	Bend Test	Samples taken from above lot for testing.
					C %	S %	P %	S + P %	CE %	Proof Stress N/mm ²	Tensile Strength N/mm ²	UTS/YS Ratio	Elongation %	Total Elongation	Bend Test	Rebend Test	Grade of Steel			
1	10	198	15.23		AS PER TEST CERTIFICATE PROVIDED BY NAGARJUNA STEEL PVT. LTD.													PASSED	PASSED	DO
2	20	203	25.14		AS PER TEST CERTIFICATE PROVIDED BY NAGARJUNA STEEL PVT. LTD.													PASSED	PASSED	DO

PARAMETERS OF TESTING

TEST RESULTS AND REMARKS

1. SURFACE PREPARATION: Checked Conforming to IS 13620: 1993 CL 5.1

Blasting surface checked and found okay.(WA Clean device Checked and got result SA 2.5 with Index value 50 - 60)

2. THICKNESS OF COATING: Measured Conforming to IS 13620: 1993 CL 7.1

Coating thickness checked by Elcometer found okay.

3. FLEXIBILITY OF COATING: Checked Conforming to IS 13620: 1993 CL 7.3

Bend test found okay. No cracking or disbonding found at the outer radius of bent samples.

4. CONTINUITY OF COATING: Checked Conforming to IS 13620: 1993 CL 7.2

Holiday test found okay.

THE FUSION BONDED EPOXY COATED REINFORCEMENT BARS SUPPLIED CONFORMING TO THE STANDARDS OF IS: 13620 -1993.

Invoice No: SIT/409/24-25

Vehicle No: MH46BU2576



TC No : NT/NS/24/1001

Date : 12.10.24

TO : M/s. NS Epoxy and Fabrication Solutions Pvt Ltd

Invoice No & Date : 4602, 4603, 12.10.24

It is certified that the matter described fully confirms to IS 1786:2008. Chemical composition and Mechanical Properties of the product, as tested in accordance with the Scheme of Testing & Inspection contained in the BIS certification marks License No.CM/L-6568791 are as indicated below against each order No. Etc.

(PLEASE REFER TO IS 1786:2008 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

TEST RESULTS

				CHEMICAL ANALYSIS									MECHANICAL PROPERTIES									
Nominal Size	Cast/Heat No.	Quantity MT	Date of Testing	C%	S%	P%	S&P%	CE	Strengthening elements %	Alloying elements %	Nitrogen Content %	0.2% Proof Stress/YS N/mm ² min	0.2% Proof Stress/YS N/mm ² max	Tensile Strength N/mm	TS/YS Ratio	Elongation %	Total Elongation at max.force %	Bend test	Rebend Test	Grade of Steel	Remarks	
10 MM	198	15.230	07.10.24	0.22	0.032	0.042	0.074	0.32	-	-	-	590	-	690	1.17	22.0	5.68	OK	OK	Fe550D		
20MM	203	25.140	10.10.24	0.20	0.034	0.038	0.072	0.30	-	-	-	606	-	716	1.18	18.1	5.63	OK	OK	Fe550D		

Shipping Invoice No & Date : 409-24-25/18.10.24



SIGNATURE
NAME & DESIGNATION
For NAGARJUNA STEEL PVT LTD