



OMEGA
Consultant Services

A Govt. Regd. Test House

Laboratory Accredited By :

NABL, A constituent Board of Quality
Council of India, Govt. of India
An ISO 9001-2015 Certified Company

HEAD OFFICE & LABORATORY
Campus - I

256A, M. G. Road, Purbasan, Thakurpukur, Kol.- 63
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ULR No. TC680919000000162F		Format NO. OCS/QR/23	
TEST REPORT			
Job ID No.: OCSK/JN/100/00009 (Physical)		Date: 23.10.2019	Page: 1 of 1
Ref. No.	: Memo No.1042-ENC/2019 Date:16.10.2019	Product Specification	: IS : 1786-2008, Reaf:2013 (Amendment No.4, 2019) Gr- Fe 500D
Issued To	: Engineer-in-Chief & Ex-Officio Secretary Public Work Department 'NABANNA', 8 th Floor, Room No.802 325, Sarat Chandrta Road, Howrah-711102	Test Specification	: IS: 1608 (P-1) - 2018 IS: 1599-2012, Reaf:2017 IS: 1786-2008, Reaf:2013 (Amendment No.4, 2019)
Description of Sample(s)	: 5nos. (1no. each of 16mm, 20mm, 25mm, 28mm & 32mm) dia. Reinforcement Steel Bar sample for the following tests. Brand: ELEGANT Subject: Physical Test of Reinforcement steel. Ref: T.O.Memo No. 595/2(5)-ENC/2019, Dt.17.06.2019	Seal / Stamp / Mark (if any)	: ELEGANT
Test Parameters	: Weight/meter, U.T.S, 0.2% P.S, %Elongation, Ratio of TS/YS, Bend & Rebend test	Sample received on	: 22.10.2019 Sample tested on : 22.10.2019 to 23.10.2019

This is to certify that the above sample (S) has/have been tested with the following results:

PHYSICAL PROPERTIES

I. Building Materials:

• Reinforcement Steel (rebar):

Sl. No	Dia. (mm)	Weight/mtr (Kg./mt)	U.T.S. (N/mm ²)	0.2% Proof Stress (N/mm ²)	% Elong. (5.65√so)	Ratio of TS/YS	Bend Test (180°/3Φ & 4Φ)	Rebend Test (135°/157.5°/6Φ)
1.	16	1.539	684.420	595.6800	17.544	1.149	Satisfactory	Satisfactory
2.	20	2.486	712.234	583.1099	20.235	1.231	Satisfactory	Satisfactory
3.	25	3.761	662.519	546.5675	23.613	1.214	Satisfactory	Satisfactory
4.	28	4.736	679.134	559.6332	21.842	1.221	Satisfactory	Satisfactory
5.	32	6.407	705.486	590.9269	19.714	1.193	Satisfactory	Satisfactory
Req. as per IS: 1786-2008, Reaf: 2013, (Amendment No.4, 2019), Gr. Fe- 500D		16mm-1.580(±5%) 20mm-2.470(±3%) 25mm-3.850(±3%) 28mm-4.830(±3%) 32mm-6.310(±3%)	565.00 Min.	500.00 Min.	16.00 Min.	1.10 Min.	Shall pass the test	Shall pass the test

REMARKS: The above submitted samples were duly tested and conform to the Req. of IS: 1786-2008, Reaf: 2013, (Amendment No.4, 2019), Gr. Fe- 500D, with respect to the above test parameters.

R.B.
Prepared By

For OMEGA CONSULTANT SERVICES

[Signature]
Authorised Signatory

Note :

- ★ Analysed as on received basis and test results relate to the sample(s) only.
- ★ Liability for return of sample(s) ceases after fifteen days.
- ★ The reproduction of the report except in full is invalid without written approval of the laboratory.
- ★ The test results referred in certificate are based on observations & measurements under the stated environmental conditions.
- ★ The Test Report without EMBOSING is Invalid.



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Cert. No.
TC - 6809

ULR No. TC680919000000162F		Format NO. OCS/QR/24	
TEST REPORT			
Job ID No.: OCSK/JN/100/00009 (Chemical)		Date: 23.10.2019	Page: 1 of 1
Ref. No. : Memo No.1042-ENC/2019 Date:16.10.2019	Product : IS : 1786-2008, Reaf:2013 Specification : (Amendment No.4, 2019) Cl.4.2.1, Gr- Fe 500D	Test Specification : IS: 228 (Relevant Parts)	
Issued To : Engineer-in-Chief & Ex-Officio Secretary Public Work Department 'NABANNA', 8 th Floor, Room No.802 325, Sarat Chandra Road, Howrah-711102	Seal / Stamp / Mark (if any) : ELEGANT		
Description of Sample(s) : 5nos. (1no. each of 16mm, 20mm, 25mm, 28mm & 32mm) dia. Reinforcement Steel Bar sample for the following tests. Brand: ELEGANT Subject: Chemical Test of Reinforcement steel. Ref: T.O.Memo No. 595/2(5)-ENC/2019, Dt.17.06.2019	Sample received on : 22.10.2019 Sample tested on : 22.10.2019		
Test Parameters : %C, %S, %P & %(S+P)			

This is to certify that the above sample (S) has/have been tested with the following results:

CHEMICAL PROPERTIES

I. Metals & Alloys:

• Carbon Steel (Low Carbon):

Sl. No	Dia. (mm)	%C	%S	%P	%(S+P)
1.	16	0.203	0.028	0.036	0.064
2.	20	0.197	0.027	0.029	0.056
3.	25	0.207	0.030	0.036	0.066
4.	28	0.205	0.016	0.029	0.045
5.	32	0.208	0.029	0.037	0.066
Req. as per IS: 1786-2008, Reaf: 2013, (Amendment No.4, 2019), Cl.4.2.1, Gr. Fe- 500D		0.27 Max	0.045 Max	0.045 Max	0.085 Max

REMARKS: The above submitted samples were duly tested and conform to the Req. of IS: 1786-2008, Reaf: 2013, (Amendment No.4, 2019), Cl.4.2.1, Gr. Fe- 500D, with respect to the above test parameters.

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Authorised Signatory

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