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SLAB
ACCREDITED

ISO/IEC 17025
TL 004-03

TEST REPORT

Report No. SS 2015916

Report to:

National Water Supply & Drainage Board,
Regional Support Center –Southern,
395, Kumarathunga Mawatha,
Pamburana,
Mathara.

Issued by:

Materials Laboratory,
Industrial Technology Institute,
363, Bauddhaloka Mawatha,
Colombo 07.

2021-01-29

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THE REPORT IS ISSUED SUBJECT TO CONDITIONS MENTIONED OVERLEAF

"PLEASE ADDRESS ALL COVERS TO THE DIRECTOR GENERAL"



ISO/IEC 17025
11-004-03

Test Report

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Customer : National Water Supply & Drainage Board, Reganal Support Center –Southern, 395, Kumarathunga Mawatha, Pamburana, Mathara.	Test Item : Reinforcement Steel Service Requested : Customer's letter ref No : RSC (S) / 05/194-26 and dated 2020-12-17
Description : Five (05) test items. (Three pieces from each diameter were received.) Following information was given in the customer's letter. Project :Upgrading of Hallala water treatment plant- Phase I Contract No: RSC(S) / P&D /C/Upgrading /Hallala/CB/2017/159R	Identification of Test Item : Test items were labelled as; <ol style="list-style-type: none">1. 10mm2. 12 mm3. 16 mm4. 20 mm5. 25 mm Test items were embossed as; <ol style="list-style-type: none">1. CAPTAIN 10 RB 500 SLS 3752. CAPTAIN 12 RB 500 SLS 3753. CAPTAIN 16 RB 500 SLS 3754. CAPTAIN 20 RB 500 SLS 3755. CAPTAIN 25 RB 500 SLS 375 Date of Receipt of Test Item : 2020-12-18
Test Dates : 2021-01-18	

TEST RESULTS

Report No. SS 2015916



ISO/IEC 17025
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Test/ Unit	Test Method	Results								
		10 mm			12 mm			16 mm		
		1	2	3	1	2	3	1	2	3
Mass per meter run / kg	SLS 375 : 2009	0.605	0.609	0.606	0.879	0.881	0.873	1.57	1.56	1.57
Effective cross sectional area/ mm ²		77.1	77.6	77.2	112	112	111	200	199	200
Yield strength/ MPa		533	523	539	580	548	562	559	573	571
Ultimate tensile strength / MPa		622	616	619	671	642	659	661	674	664
Tensile /Yield Strength ratio,(R _m / R _e)		1.17	1.18	1.15	1.16	1.17	1.17	1.18	1.18	1.16
Elongation at break / %	26	29	25	22	23	21	26	25	25	
Total Elongation at maximum force A _{gt} /%	11.4	10.1	11.6	9.0	7.0	6.1	8.1	7.6	7.0	

Test/ Unit	Test Method	Results								
		20 mm			25 mm					
		1	2	3	1	2	3			
Mass per meter run / kg	SLS 375 : 2009	2.46	2.47	2.46	3.83	3.83	3.80			
Effective cross sectional area / mm ²		314	315	313	488	488	485			
Yield strength/ MPa		562	552	558	525	541	535			
Ultimate tensile strength / MPa		662	659	667	640	647	645			
Tensile /Yield Strength ratio,(R _m / R _e)		1.18	1.19	1.20	1.22	1.19	1.21			
Elongation at break / %	22	22	24	19	22	22				
Total Elongation at maximum force A _{gt} /%	7.4	8.7	6.5	10.1	10.6	10.9				

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 Authorized Signatory

2021-01-29

-/mm.

A. A. M. T. Adikari
 Senior Deputy Director
 Materials Laboratory
 Industrial Technology Institute

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 K.A. Suraj
 Assistant Research Technologist

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... Continuation Sheet