



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works (Pkg-II, III & IV), DHA PH-IX (Prism)(M/s NLC)

Reference # CED/TFL **33457** (Dr. Safer Abbas)
Reference of the request letter # 408/241/E/Lab/624/16104

Dated: 28-06-2019
Dated: 27-06-2019

Tension Test Report (Page -1/1)

Date of Test 05-07-2019
Gauge length -----
Description Deformed Steel Bar Tensile Test as per ASTM-A496

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal (in)	Actual (mm)	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.259	1/4	6.48	32.26	32.96	1800	2000	547	536	608	595	
2	0.260	1/4	6.50	32.26	33.17	1800	2000	547	532	608	592	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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Ref: CED/TFL/07/33483

Dated: 02-07-19

To
Chief Resident Engineer, Package-1
NESPAK
Construction/ Improvement & Rehabilitation of at Grade Works along Lahore
Orange Line Metro Train Corridor Package-1 (Section-II) from Coop Store to Bohar
wala Chowk

Subject: TESTING OF R.C.C. PIPE [ASTM-C76]

Reference to your letter No. 4042/13/FAM/RCC-Pipe-011, dated 01-07.2019 on the subject cited above. One R.C.C. Pipe as received by us has been tested.

The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(mm)	(m)	(m)	(mm)	(mm)	(mm)	(kg)	(kg)	N/m/mm	N/m/mm
1	228.6 (9")	2.384	2.225	287.00	234.66	26.17	5600	6300	105.22	118.37

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Manager Procurement
 International Prochemicals (Pvt) Ltd
 Model Town, Lahore

Reference # CED/TFL **33486** (Dr. Safer Abbas)
 Reference of the request letter # Nil

Dated: 03-07-2019
 Dated: 03-07-2019

Tension Test Report (Page -1/1)

Date of Test 05-07-2019
 Gauge length 8 inches
 Description Plain Steel Bar Tensile Test as per ASTM A36

Sr. No.	Weight	Diameter/size		Area (mm ²)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)		
1	7.553	35	35.00	-----	962.2	31600	54200	322	553	1.90	23.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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