



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

Ref: CED/TFL/03/36288

Dated: 30-03-2021

Dated of Test: 08-04-2021

To  
Resident Engineer  
NESPAK  
Punjab Intermediate Cities Improvement Investment Program (PICIIP),  
Consultancy Services for Engineering, Procurement and Construction Management  
Watsam Sialkot (NCB-Works/PICIIP-02)(Lot-01)

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]

Reference to your letter No. Nespak/SAH/UET/L1/001, dated 24.03.2021

on the subject cited above. Two R.C.C. Pipes as received by us have 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
	(inch)	(foot)	(foot)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18	7.80	7.26	1.94	1.51	2.59	12000	18200	2411	3657
2	36	7.97	7.63	3.67	3.02	3.89	16590	21440	1588	2052

Witness by Abdullah Hussain (Resident Engineer NESPAK)

**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](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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To,  
 Manager Construction  
 Orient Electronics (Pvt) Ltd  
 Construction of Orient Square Hotel Tower Johar Town

Reference # CED/TFL **36312** (Dr. Qasim Khan) Dated: 06-04-2021  
 Reference of the request letter # OSH-SO/SGS/SteelTest/060421-02 Dated: 06-04-2021

**Tension Test Report** (Page -1/1)

Date of Test 08-04-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.237	32	31.98	1.25	1.245	40200	55000	70900	71150	97002	97400	1.40	17.5	
2	4.251	32	32.04	1.25	1.250	41600	55600	73369	73370	98061	98100	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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To,  
 General Manager  
 AYQ Developers Pvt. Ltd  
 Union Complex

Reference # CED/TFL **36314** (Dr. Qasim Khan)  
 Reference of the request letter # Nil

Dated: 07-04-2021  
 Dated: 07-04-2021

**Tension Test Report** (Page -1/1)

Date of Test 08-04-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.399	3	0.387	0.11	0.117	3300	4300	66200	61940	86200	80800	1.50	18.8	H-I Steel
2	0.392	3	0.383	0.11	0.115	2900	3700	58200	55430	74200	70800	2.00	25.0	
3	0.390	3	0.382	0.11	0.114	2600	3400	52100	50050	68200	65500	1.90	23.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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Ref: CED/TFL/07/36315

Dated: 07-04-2021

Dated of Test: 08-04-2021

To  
**Assistant Resident Engineer**  
**Enviro Consult Daska**  
**(Rehabilitation of Municipal Services Infrastructure under Punjab Cities Programs**  
**(PCP) City Daska (Group-C)**

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. ENVIRO/ARE/DSK/2021/06, dated 16.02.2021 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
	(inch)	(foot)	(foot)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18	7.73	7.34	1.90	1.49	2.45	9000	14000	1808	2813

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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