



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/09/3931
2023

Dated: 18-09-

Dated of Test: 25-09-2023

To

Chief Resident Engineer
NESPAK

Construction of Dual Carriageway from GT Road (Benazir Chowk) to Lahore-Sialkot Motorway (Wando Interchange) L= 15.20km, District Gujranwala.

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

Reference to your letter No. 103/EW/GRW/TN/Lab/22, dated 06.09.2023

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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	36	8.68	7.71	44.37	36.18	4.09	19520	30150	1851	2859

Witness by Rana Tariq Mahmood (ME NESPAK)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
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Ref: CED/TFL/09/3932, 3975

Dated: 18-09-2023

Dated of Test: 25-09-2023

To

Resident Engineer
NESPAK

Construction Supervision of Infrastructure Development Works of GEPCO Employees Housing Fou (GEHF Town, Phase-1) Gujranwala.

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

Reference to your letter No. P4265/23/MA/256, dated 23.08.2023 on the subject cited above. Three R.C.C. Pipe 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.75	7.28	12.20	8.83	1.69	13000	15000	5350	6173
2	24	7.74	7.13	29.92	24.01	2.96	7820	11010	1209	1702
3	30	8.12	7.72	36.81	31.00	2.90	8880	17390	982	1923

Witness by Syed Bilal Ghazi (Chief Material NESPAK)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Malik Steel Sales Depot
Badami Bagh, Lahore

Reference # CED/TFL **3976** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 26-09--2023
Dated: 26-09-2023

Tension Test Report (Page -1/4)

Date of Test 26-09-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		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	0.388	3	0.381	0.11	0.114	3570	5220	71600	68930	104600	100800	1.00	12.5	Malik G-60 Heat No. 298
2	0.378	3	0.376	0.11	0.111	3540	5170	71000	70230	103600	102600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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UET Lahore, Pakistan.

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Reference # CED/TFL **3976** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 26-09--2023
 Dated: 26-09-2023

Tension Test Report (Page -2/4)

Date of Test 26-09-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		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	0.389	3	0.381	0.11	0.114	3820	5610	76600	73720	112500	108300	1.00	12.5	Malik G-60 Heat No. 299
2	0.373	3	0.373	0.11	0.110	3540	5300	71000	71250	106200	106700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Tension Test Report (Page -3/4)

Date of Test 26-09-2023
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Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		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	0.382	3	0.378	0.11	0.112	3890	5610	78000	76300	112500	110100	0.90	11.3	Malik G-60 Heat No. 300
2	0.374	3	0.374	0.11	0.110	3640	5370	73000	72950	107600	107700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Tension Test Report (Page -1/4)

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Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		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	0.378	3	0.376	0.11	0.111	3690	5520	74000	73260	110700	109600	0.80	10.0	Malik G-60 Heat No. 301
2	0.377	3	0.376	0.11	0.111	3610	5470	72400	71730	109600	108700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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