



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/11/37421

Dated: 24-11-2021

Dated of Test: 06-12-2021

To
Resident Engineer
NESPAK
Metropolitan Corporation Lahore (MCL Project)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page -1/3)

Reference to your letter No. 4084/103/BSAM/104/546, dated 04-11.2021

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	12	7.73	7.33	1.34	0.98	2.13	11500	16900	3518	5169

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/11/37421

Dated: 24-11-2021

Dated of Test: 06-12-2021

To
Resident Engineer
NESPAK
Metropolitan Corporation Lahore (MCL Project)

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -2/3)

Reference to your letter No. 4084/103/BSAM/104/547, dated 04-11.2021

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	7.71	7.31	1.93	1.50	2.61	9000	13400	1813	2699

I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/11/37421

Dated: 24-11-2021

Dated of Test: 06-12-2021

To
Resident Engineer
NESPAK
Metropolitan Corporation Lahore (MCL Project)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page -3/3)

Reference to your letter No. 4084/103/BSAM/104/548, dated 04-11.2021

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	24	7.72	7.18	2.50	2.00	3.01	9800	13680	1503	2098

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Resident Engineer
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore

Reference # CED/TFL **37449** (Dr. Rizwan Azam)
 Reference of the request letter # DB-78-DAR-RE-ME-2021-030

Dated: 01-12-2021
 Dated: 30-11-2021

Tension Test Report (Page – 1/4)

Date of Test 06-12-2021
 Gauge length 2 inches
 Description Electric Light Pole Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	Electric Light Pole	-----	28.60x3.15	90.09	3600	5160	392	562	0.50	25.00	
2			28.60x3.15	90.09	3400	4920	370	536	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
Resident Engineer
Dar Engineering
Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore

Reference # CED/TFL **37449** (Dr. Rizwan Azam)
Reference of the request letter # DB-78-DAR-RE-ME-2021-028

Dated: 01-12-2021
Dated: 17-11-2021

Tension Test Report (Page – 2/4)

Date of Test 06-12-2021
Gauge length 2 inches
Description MS Sheet Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	MS Sheet	1	16.65x1.00	16.65	560	800	330	471	0.80	40.00	
2			16.60x1.00	16.60	530	760	313	449	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
 Resident Engineer
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore

Reference # CED/TFL **37449** (Dr. Rizwan Azam)

Dated: 01-12-2021

Reference of the request letter # DB-78-DAR-RE-ME-2021-026`

Dated: 17-11-2021

Tension Test Report (Page – 3/4)

Date of Test 06-12-2021

Gauge length 2 inches

Description MS, GI Sheet & Steel Structure Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	MS Sheet	2	18.80x1.90	35.72	1000	1680	275	461	0.70	35.00	
2			18.60x1.90	35.34	1000	1720	278	477	0.80	40.00	
3	GI Sheet	1	28.80x1.00	28.80	1200	1720	409	586	0.50	25.00	
4			28.00x1.00	28.00	1120	1600	392	561	0.50	25.00	
5	GI Sheet	0.5	20.60x0.50	10.30	360	520	343	495	0.60	30.00	
6			20.80x0.50	10.40	360	520	340	491	0.60	30.00	
7	Steel Structure	5	26.75x5.00	133.75	4400	6680	323	490	0.60	30.00	
8			26.60x5.00	133.00	4400	6680	325	493	0.50	25.00	

Only Eight Samples for Tensile Test

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Bend Test

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I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
Resident Engineer
Dar Engineering
Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore

Reference # CED/TFL **37449** (Dr. Rizwan Azam)
Reference of the request letter # DB-78-DAR-RE-ME-2021-026`

Dated: 01-12-2021
Dated: 17-11-2021

Size Test Report (Page – 4/4)
Date of Test 06-12-2021
Description G.I Sheet thickness Test

Sr. No.	Designation	Thickness	Remark
	(mm)	(mm)	
1	1	1.00	
-	-	-	
-	-	-	
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	
Only One Sample for Test			

I/C Testing Laboratories
UET Lahore, Pakistan.

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

To,
 PTC Area Office
 Jhelum
 (M/S Mannan Associates)

Reference # CED/TFL **37458** (Dr. Rizwan Azam)
 Reference of the request letter # Nil

Dated: 03-12-2021
 Dated: 03-12-2021

Tension Test Report (Page -1/1)

Date of Test 06-12-2021
 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 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	0.371	3	0.372	0.11	0.109	4400	5000	88200	89020	100200	101200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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 Al Manzal Traders
Jhelum

Reference # CED/TFL 37459 (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 03-12-2021
Dated: 03-12-2021

Tension Test Report (Page -1/2)

Date of Test 06-12-2021
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 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	0.363	3	0.369	0.11	0.107	2800	4400	56200	57840	88200	90900	1.50	18.8	Mehmooob Steel G-40
2	0.366	3	0.370	0.11	0.107	2900	4300	58200	59460	86200	88200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
M/S Al Manzal Traders
Jhelum

Reference # CED/TFL 37459 (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 03-12-2021
Dated: 03-12-2021

Tension Test Report (Page -2/2)

Date of Test 06-12-2021
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 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	0.363	3	0.368	0.11	0.107	3200	5000	64200	66170	100200	103400	1.60	20.0	Mehmooob Steel G-60
2	0.364	3	0.369	0.11	0.107	3200	5000	64200	65940	100200	103100	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Executive Engineer
 Road Construction Division
 Gujranwala
 (Dualization of Road from Gujranwala to M-2 Interchange at Kot Sarwer via Hafizabad km 6.20 to km 80.35 Length = 74.15 km in District Gujranwala & Hafizabad (Section km no. 6.20 to km 40.20))

Reference # CED/TFL **37461** (Dr. Rizwan Azam)
 Reference of the request letter # 907

Dated: 03-12-2021
 Dated: 30-11-2021

Tension Test Report (Page -1/1)

Date of Test 06-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		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	0.083	5/32	0.176	-----	0.024	600	800	-----	54290	-----	72400	1.60	20.0	
2	0.083	5/32	0.176	-----	0.024	600	800	-----	54060	-----	72100	1.40	17.5	
3	0.173	1/4	0.254	-----	0.051	1440	1800	-----	62570	-----	78300	1.60	20.0	
4	0.156	1/4	0.242	-----	0.046	1480	1840	-----	71170	-----	88500	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only four samples for tensile and two samples for bend test

Bend Test

5/32" Dia Bar Bend Test Through 180° is Satisfactory

1/4" Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Sub Divisional Officer
 Highway Sub Division
 Lalian
 (Rehabilitation / Improvement of Road from Ahmad Nagar to Sial Morr Interchange City,
 Length = 7.00 km)
 Reference # CED/TFL **37462** (Dr. Rizwan Azam)
 Reference of the request letter # 521/L

Dated: 03-12-2021
 Dated: 22-11-2021

Tension Test Report (Page -1/2)

Date of Test 06-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		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	0.379	3/8	0.377	0.11	0.111	4300	5600	86200	85120	112300	110900	0.80	10.0	
2	0.378	3/8	0.376	0.11	0.111	4200	5600	84200	83380	112300	111200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Sub Divisional Officer
 Highway Sub Division
 Lalian
 (Reconstruction / Rehabilitation Carpet Road from Kalowal to Wasoana I/C Limnks in Tehsil
 Lalian District Chiniot, Length = 9.10 km)
 Reference # CED/TFL **37462** (Dr. Rizwan Azam) Dated: 03-12-2021
 Reference of the request letter # 520/L Dated: 22-11-2021

Tension Test Report (Page -2/2)

Date of Test 06-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		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	0.390	3/8	0.382	0.11	0.115	3400	5100	68200	65410	102200	98200	1.10	13.8	
2	0.321	3/8	0.347	0.11	0.094	3200	4900	64200	74690	98200	114400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Planning & Coordination Engineer
 Izhar Construction (Pvt) Ltd
 Construction of Ocean Ceramic Tiel Project at M-3 Industrial Area, Faisalabad

Reference # CED/TFL **37463** (Dr. Rizwan Azam)
 Reference of the request letter # ICPL/CONST-OCT/21/118

Dated: 03-12-2021
 Dated: 03-12-2021

Tension Test Report (Page -1/1)

Date of Test 06-12-2021
 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 ²)		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	0.424	10	10.12	0.12	0.125	4400	5300	80835	77820	97370	93800	1.00	12.5	Mughal Steel
2	0.424	10	10.12	0.12	0.125	4600	5400	84510	81280	99207	95500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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



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

To,
 Resident Engineer
 ACE Consultants – Lahore
 Construction of Lodhran – Multan Project Section (N-5)

Reference # CED/TFL **37464** (Dr. Rizwan Azam)
 Reference of the request letter # RE/ACE/LMP/2021/107

Dated: 03-12-2021
 Dated: 29-11-2021

Tension Test Report (Page -1/2)

Date of Test 06-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		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	0.429	3/8	0.400	0.11	0.126	4000	5900	80200	69990	118300	103300	0.80	10.0	Ittehad Steel
2	0.434	3/8	0.403	0.11	0.128	4100	6000	82200	70850	120300	103700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Quantity Surveyor
 Linker Developers (Pvt) Ltd
 Construction of Over Head Water Tanks – Dream Gardens, Wazirabad

Reference # CED/TFL **37466** (Dr. Rizwan Azam)
 Reference of the request letter # Nil

Dated: 03-12-2021
 Dated: 02-12-2021

Tension Test Report (Page -1/1)

Date of Test 06-12-2021
 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 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	0.371	3	0.373	0.11	0.109	3500	5100	70200	70720	102200	103100	1.30	16.3	Moiz Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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