



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/03/4777
2024

Dated: 11-03-

Dated of Test: 20-03-2024

To

ARE
MM Pakistan (Pvt) Ltd.
PCP Package-V, Khanewal
Comprehensive Sewerage System in Khanewal City,
Under Punjab Cities Program (PCP).

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

Reference to your letter No. PCP/KW-99/2024, dated 02.03.2024 on the subject cited above. One 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	12	7.74	7.33	15.83	12.00	1.91	17000	20700	5111	6224
2	15	7.78	7.25	19.53	14.95	2.29	12000	16100	2927	3927
3	24	7.71	7.09	29.80	23.77	3.02	8400	12660	1319	1988

Witness by Waseem Ahmed Hashmi (R.E AiD/MMP), Shahbaz Ali (Sub Engr. MC Khanewal), M Amjad Iqbal (DPO-ID, PMDFC Lahore) and Saeed Ahmed (MMP).

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
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- 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,

ARE
MM Pakistan (Pvt) Ltd.
PCP Package-V

Comprehensive Sewerage System in Khanewal City Under Punjab Cities Program (PCP).

Reference # CED/TFL **4778, 4829** (Dr. Ali Ahmed)

Dated: 11-03-2024

Reference of the request letter # PCP/KWL-102/2024

Dated: 06-03-2024

Tension Test Report (Page -1/1)

Date of Test 20-03-2024

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	0.079	1/8	0.172	-----	0.023	1000	1090	-----	94570	-----	103100	0.80	10.0	
2	0.077	1/8	0.170	-----	0.023	970	1070	-----	94510	-----	104300	0.90	11.3	
3	0.174	1/4	0.256	-----	0.051	1350	1730	-----	58020	-----	74400	1.20	15.0	
4	0.176	1/4	0.257	-----	0.052	1400	1780	-----	59540	-----	75700	1.10	13.8	
5	0.368	3/8	0.371	0.11	0.108	4380	5100	87800	89260	102200	104000	0.80	10.0	
6	0.369	3/8	0.372	0.11	0.109	4350	5100	87200	88300	102200	103600	0.90	11.3	

Note: only six samples for tensile and three samples for bend test

Bend Test

1/8" Dia Bar Bend Test Through 180° is Satisfactory

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

3/8" Dia Bar Bend Test Through 180° is Satisfactory

Witness by Waseem Ahmed Hashmi (R.E AiD/MMP), Shahbaz Ali (Sub Engr. MC Khanewal),
M Amjad Iqbal (DPO-ID, PMDFC Lahore) and Saeed Ahmed (MMP).

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
Buildings Sub Division No. 2
Multan
“Construction of New Administration Block Lahore High Court Multan Bench Multan
(Group No. 1)

Reference # CED/TFL **4811** (Dr. Ali Ahmed)
Reference of the request letter # 2092/SDO 2nd

Dated: 18-03-2024
Dated: 29-02-2024

Tension Test Report (Page -1/1)

Date of Test 20-03-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.375	3	0.375	0.11	0.110	3330	4990	66800	66550	100000	99800	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

Ref: CED/TFL/03/4813

Dated: 18-03-2024

Dated of Test: 20-03-2024

To

Resident Engineer
Asian Consulting Engineers Pvt. Ltd.
Engineering Design & Construction Supervision - Cluster South-1 Punjab
Rural South-1 Punjab Rural Sustainable Water Supply Station Project.

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

Reference to your letter No. RE/Asce/KPT-04/136, dated 07.03.2024 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	12	7.71	7.35	15.98	11.92	2.03	9000	14500	2716	4376

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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

Ref: CED/TFL/03/4814

Dated: 18-03-2024

Dated of Test: 20-03-2024

To

Resident Engineer
Asian Consulting Engineers Pvt. Ltd.
Punjab Rural Sustainable Water Supply Station Project
Engineering Design and Construction Supervision of Cluster South-1 (Lot No. 04)

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

Reference to your letter No. AsCE/PRSWSSP/CS1/P-06/2526, dated 17.01.2024 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	12	7.78	7.30	15.83	11.93	1.95	11000	14000	3341	4252

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

Ref: CED/TFL/03/4815

Dated: 18-03-2024

Dated of Test: 20-03-2024

To

Resident Engineer
Asian Consulting Engineers Pvt. Ltd.
Punjab Rural Sustainable Water Supply Station Project
Engineering Design and Construction Supervision of Cluster South-1 (Lot No. 01)

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

Reference to your letter No. AsCE/PRSWSSP/CS1/P-03/1023, dated 04.03.2024 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	12	7.71	7.35	15.91	11.93	1.99	10500	14000	3168	4224

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 Project Manager
 United Lifestyle (Private) Limitd.
 High-Rise Building “Skyscrapers United” at Johar Town Lahore

Reference # CED/TFL **4818** (Dr. Ali Ahmed)
 Reference of the request letter # ULS/2021-22-23-24/04

Dated: 19-03-2024
 Dated: 19-03-2024

Tension Test Report (Page -1/1)

Date of Test 20-03-2024
 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	0.381	3	0.378	0.11	0.112	3280	4690	65800	64580	94000	92400	1.30	16.3	
2	0.375	3	0.375	0.11	0.110	3360	4790	67400	67160	96000	95800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
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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
Master Consulting Engineers (Pvt) Ltd.
Revamping of Services Hospital Lahore. Group No. 3 (Admin Block)

Reference # CED/TFL **4822** (Dr. Ali Ahmed)

Dated: 19-03-2024

Reference of the request letter # Revamping/Services/ Camp/19

Dated: 08-03-2024

Tension Test Report (Page -1/1)

Date of Test 20-03-2024

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	0.375	3	0.374	0.11	0.110	3570	4660	71600	71470	93400	93300	1.40	17.5	
2	0.372	3	0.373	0.11	0.109	3330	4540	66800	67180	91000	91600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,

Project Engineer
Baig Construction Co.
Construction of Jinnah Square Mall, Raiwind Road, Lahore.

Reference # CED/TFL **4823** (Dr. Ali Ahmed)
Reference of the request letter # ST/UET/18032024/3000

Dated: 19-03-2024
Dated: 18-03-2024

Tension Test Report (Page -1/1)

Date of Test 20-03-2024
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	0.369	3	0.372	0.11	0.109	4000	4960	80200	81240	99400	100800	1.00	12.5	
2	0.384	3	0.379	0.11	0.113	4640	5350	93000	90680	107200	104600	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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

Ref: CED/TFL/03/4824

Dated: 19-03-2024

Dated of Test: 20-03-2024

To

Resident Engineer
Asian Consulting Engineers Pvt. Ltd.
Engineering Design & Construction Supervision - Cluster South-1 Punjab
Rural South-1 Punjab Rural Sustainable Water Supply Station Project.

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

Reference to your letter No. RE/AsCE/KPT-01/135, dated 07.03.2024 on the subject cited above. One 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	12	7.76	7.32	16.30	12.28	2.01	9100	12000	2677	3530

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

Ref: CED/TFL/03/4825

Dated: 19-03-2024

Dated of Test: 20-03-2024

To

Resident Engineer
NESPAK

Rehabilitation of Road Opposite Degree College Raiwind (Iqbal Zone) Lahore.

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

Reference to your letter No. 4084/103/MUR/104/1780, dated 17.01.2024

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	18	7.75	7.35	22.87	17.82	2.53	10500	15000	2121	3029

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

Ref: CED/TFL/03/4826

Dated: 19-03-2024

Dated of Test: 20-03-2024

To

Assistant Resident Engineer
NESPAK - ACE (Pvt) Ltd.
Punjab Rural Municipal Services Company
Punjab Rural Sustainable Water Supply Station Project (PRSWSSP)
Pilot Phase Cluster South-1 (Package 1 & 2) Ahmedpur Sial.

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

Reference to your letter No. PRSWSSP/RE/APS/L/1205, dated 12.03.2024

on the subject cited above. One 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	12	7.78	7.34	15.87	11.76	2.05	14000	16500	4290	5056

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,

Project Manager
Halmore Properties Pvt. Ltd.
Construction of Holmore Apartments at Plot No. 11, Block B3,
Gulberg-III, Tipu Road, Lahore

Reference # CED/TFL **4827** (Dr. Ali Ahmed)
Reference of the request letter # HPPL/UET/24/03/020

Dated: 20-03-2024
Dated: 20-03-2024

Tension Test Report (Page -1/2)

Date of Test 20-03-2024
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	0.395	3	0.385	0.11	0.116	3280	4800	65800	62190	96200	91100	1.20	15.0	Markhor Steel
2	0.373	3	0.374	0.11	0.110	3340	4800	67000	67180	96200	96600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
Witness by: Saqib Hussain Quality Head Markhor Steel & Farooq Ahmad Site Incharge														

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
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
Dy Dir Infra
Defence Housing Authority, Gujranwala
"Sector C"

Reference # CED/TFL **4828** (Dr. Ali Ahmed)
Reference of the request letter # 111/15/AD/RS/Lab/Pkg-2A/2073

Dated: 20-03-2024
Dated: 19-03-2024

Tension Test Report (Page -1/2)

Date of Test 20-03-2024
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	0.360	3	0.367	0.11	0.106	3430	5050	68800	71360	101200	105100	1.20	15.0	Kamran Steel
2	0.364	3	0.369	0.11	0.107	3520	5050	70600	72450	101200	104000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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.

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,
Dy Dir Infra
Defence Housing Authority, Gujranwala
"Sector C"

Reference # CED/TFL **4828** (Dr. Ali Ahmed)
Reference of the request letter # 111/15/AD/RS/Lab/Pkg-2A/2072

Dated: 20-03-2024
Dated: 19-03-2024

Tension Test Report (Page -2/2)

Date of Test 20-03-2024
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	0.376	3	0.375	0.11	0.111	3380	4790	67800	67340	96000	95500	1.20	15.0	FF Steel	
2	0.368	3	0.371	0.11	0.108	3430	4760	68800	69930	95400	97100	1.20	15.0		
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Note: only two samples for tensile and one sample for bend test															
Bend Test															
#3 Bar Bend Test Through 180° is Satisfactory															

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