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/10/5758 Dated: 02-10-2024

Dated of Test: 21-11-2024

To

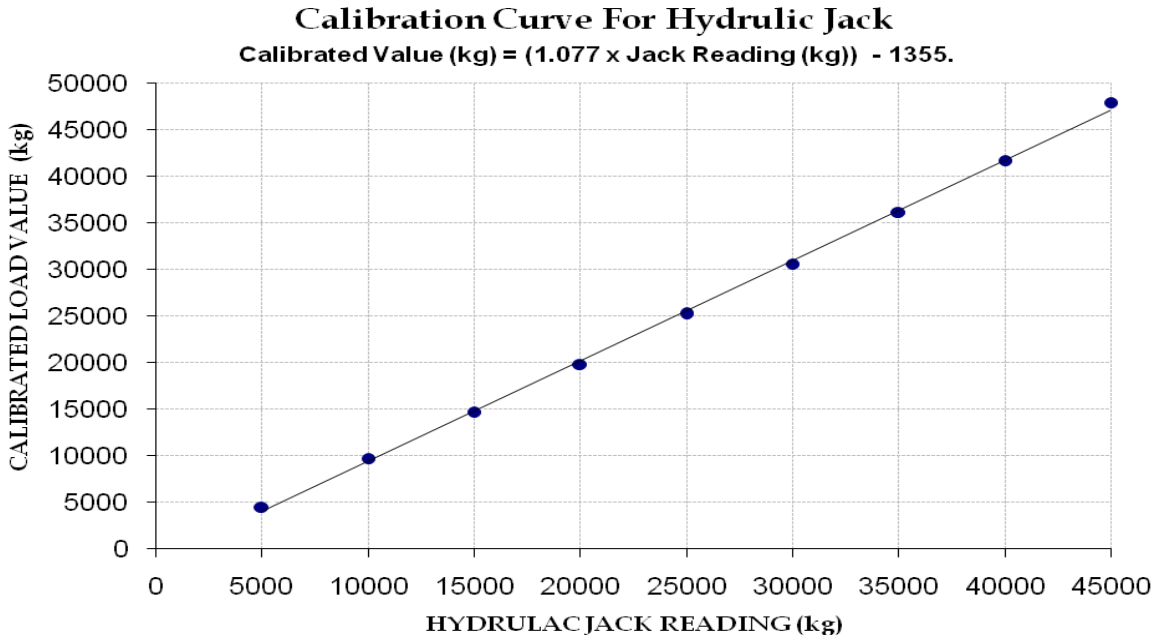
RE
MM Pakistan (Pvt) Ltd.
Package-V MMP/PCP/Okara

Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/10/5758)**

Reference to your Letter No. MMP/MCO/PCP3085/2024, Dated: 27/09/2024 on the subject cited above. One Hydraulic Jack Testing Machine as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 70000 (kg)
Calibrated Range : Zero - 45000 (kg)

Hydraulic Jack Reading (kg)	5000	10000	15000	20000	25000	30000	35000	40000	45000
Calibrated Load (kg)	4500	9700	14700	19800	25200	30600	36100	41700	47900



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,

M/S United Wire Industries (Pvt) Limitd
Lahore
(Thal Enterprises Layyah.)

Reference # CED/TFL **5997** (Dr. M Rizwan Riaz) Dated: 14-11-2024
Reference of the request letter # 377 Dated: 14-11-2024

Tension Test Report (Page – 1/1)

Date of Test 21-11-2024
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	**9.53 (3/8")**	**430.0**	**432.0**	**10000**	**98.10**	**11000**	**107.91**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for Test									

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,

M/S United Wire Industries (Pvt) Limitd
Lahore
(Thal Concrete Layyah.)

Reference # CED/TFL **5998** (Dr. M Rizwan Riaz) Dated: 14-11-2024
Reference of the request letter # 378 Dated: 14-11-2024

Tension Test Report (Page – 1/1)

Date of Test 21-11-2024
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	**9.53 (3/8")**	**430.0**	**433.0**	**9800**	**96.14**	**11200**	**109.87**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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.
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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/11/6012 Dated: 18-11-2024

Dated of Test: 21-11-2024

To

Resident Engineer
Techno-Consultant International (Pvt) Ltd.
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Tehsil Noorpur Thal, District Khushab

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

Reference to your letter No. TCI/PRSWSSP-NORTH/PHSE-III/NPT-04/018, dated 15.10.2024 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.77	7.34	16.06	11.97	2.05	12200	16800	3677	5063
2	12	7.74	7.35	16.10	12.01	2.05	12500	17000	3748	5098

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

Ref: CED/TFL/11/6013 Dated: 18-11-2024

Dated of Test: 21-11-2024

To

Resident Engineer
Techno-Consultant International (Pvt) Ltd.
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Tehsil Noorpur Thal, District Khushab

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

Reference to your letter No. TCI/PRSWSSP-NORTH/PHSE-III/NPT-04/015A, dated 10.08.2024 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.76	7.34	16.06	11.97	2.05	12500	17200	3767	5184
2	12	7.74	7.35	16.02	11.93	2.05	13000	17400	3923	5251

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

Ref: CED/TFL/11/6017 Dated: 18-11-2024

Dated of Test: 21-11-2024

To

Resident Engineer
Techno-Consultant International (Pvt) Ltd.
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Tehsil Noorpur Thal, District Khushab

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

Reference to your letter No. TCI/PRSWSSP-NORTH/PHSE-III/NPT-04/024, dated 12.11.2024 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	7.74	7.34	16.02	11.95	2.04	12800	17600	3858	5305

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

Ref: CED/TFL/11/6018 Dated: 18-11-2024

Dated of Test: 21-11-2024

To

Resident Engineer
Techno-Consultant International (Pvt) Ltd.
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Tehsil Noorpur Thal, District Khushab

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

Reference to your letter No. TCI/PRSWSSP-NORTH/PHSE-III/NPT-05/041, dated 14.11.2024 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	7.76	7.34	16.10	12.05	2.03	12500	17100	3740	5116

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,

M/S A.F Steel Re Rolling Mills
Lahore

Reference # CED/TFL **6020** (Dr. Rizwan Azam) Dated: 20-11-2024
Reference of the request letter # Nil Dated: 20-11-2024

Tension Test Report (Page -1/1)

Date of Test 21-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.374	3	0.374	0.11	0.110	4400	5100	88200	88190	102200	102300	0.60	7.5	
2	4.130	10	1.243	1.27	1.214	31200	50600	54200	56640	87900	91900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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,

Project Manager
Aujla & Associates
Educational Complex Foundation (R-S)
Royal Palm City Housing Scheme Gujranwala.

Reference # CED/TFL **6021** (Dr. Rizwan Azam) Dated: 20-11-2024
Reference of the request letter # Nil Dated: 20-11-2024

Tension Test Report (Page -1/1)

Date of Test 21-11-2024
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	0.358	3	0.366	0.11	0.105	4400	5100	88200	92240	102200	107000	0.80	10.0	
2	0.372	3	0.373	0.11	0.109	4400	5200	88200	88790	104200	105000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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
NESPAK
Resolving Traffic Congestion Issue at Crosssing of 9Th Avenue and Jinnah Avenue / IBN-E-SINARoad, Islamabad.

Reference # CED/TFL **6023** (Dr. Rizwan Azam) Dated: 20-11-2024
Reference of the request letter # SA-527/103/KTSN/01/11 Dated: 11-11-2024

Tension Test Report (Page -1/1)

Date of Test 21-11-2024
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	4.109	10	1.240	1.27	1.208	38800	47200	67400	70820	82000	86200	1.00	12.5	Pak Steel
2	4.083	10	1.236	1.27	1.200	38000	53800	66000	69790	93400	98900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#10 Bar Bend Test Through 180º 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,

M/S Fast Cables
Lahore
(Hall 4 at Unit 2 Fast Cables Ltd.
(Double Tee Buiding)

Reference # CED/TFL **6024** (Dr. Rizwan Azam) Dated: 20-11-2024
Reference of the request letter # Nil Dated: 20-11-2024

Tension Test Report (Page -1/1)

Date of Test 21-11-2024
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	0.367	3	0.370	0.11	0.108	3300	4800	66200	67470	96200	98200	1.40	17.5	
2	0.365	3	0.369	0.11	0.107	3200	4700	64200	65830	94200	96700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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,

M/S Noor ul Haq & Brothers
Karachi
(Emergency Flood Assistance Project (EFAP) EFAP-BI-CW-04: Package-IV: Rehabilitation / Reconstruction of Nine (9) Flood Perennial Irrigation System and Three (3) Flood Protection Schemes in District Harnai.)

Reference # CED/TFL **6025** (Dr. Rizwan Azam) Dated: 20-11-2024
Reference of the request letter # NR/KH/11989 Dated: 18-11-2024

Tension Test Report (Page -1/1)

Date of Test 21-11-2024
Gauge length 8 inches
Description G.I. Wire Tensile and Bend Test

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	0.105	-------	4.13	-------	13.4	440	600	322	440	1.60	20.0	
2	0.105	-------	4.12	-------	13.3	440	600	323	441	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

G.I. Wire Bend Test Through 180º 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,

Senior Project Manager, IDAP
Infrastructure Development Authority of Punjab

Reference # CED/TFL **6027** (Dr. Rizwan Azam) Dated: 20-11-2024
Reference of the request letter # PD(NSICTR)/PACKAGE-C/2024/20704 Dated: 14-10-2024

Tension Test Report (Page -1/1)

Date of Test 21-11-2024
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	0.367	3	0.371	0.11	0.108	3200	4600	64200	65370	92200	94000	1.10	13.8	Heat No. SJ-33 SJ Steel
2	0.373	3	0.374	0.11	0.110	3300	4700	66200	66310	94200	94500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º 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
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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,

M/S Amanah Noor Residence
Wapda Town, Lahore

Reference # CED/TFL **6028** (Dr. Rizwan Azam) Dated: 20-11-2024
Reference of the request letter # Nil Dated: 20-11-2024

Tension Test Report (Page -1/1)

Date of Test 21-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.374	3	0.374	0.11	0.110	3400	4900	68200	68210	98200	98300	1.00	12.5	
2	0.381	3	0.378	0.11	0.112	3500	5000	70200	68880	100200	98400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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