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
Lahore Ring Road Project – Kamahan Hostel Building SL 1& 2.

Reference # CED/TFL **6069** (Dr. M Kashif) Dated: 01-12-2024
Reference of the request letter # 2636/103/AQC/SL/02/664 Dated: 27-11-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
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	0.378	3	0.376	0.11	0.111	3470	4890	69600	68800	98000	97000	1.20	15.0	Hunza Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Project Manager
7 Canal Developers
7 Canal Residential Apartment Buildings

Reference # CED/TFL **6077** (Dr. M Kashif) Dated: 02-12-2024
Reference of the request letter # Nil Dated: 02-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
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	0.384	3	0.379	0.11	0.113	3310	4300	66400	64580	86200	83900	1.00	12.5	
2	0.383	3	0.378	0.11	0.113	3380	4380	67800	66220	87800	85900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

Engineer's Representative
Metroplan - Asian Jv
Establishment Jinnah Institute of Cardlogy at Jinnah Hospital Lahore.

Reference # CED/TFL **6079** (Dr. M Kashif) Dated: 03-12-2024
Reference of the request letter # Metroplan-Asian JV JIC-JHL-RE-301-2024 Dated: 02-12-2024

Tension Test Report (Page – 1/2)

Date of Test 06-12-2024
Gauge length 2 inches
Description M.S Seamless Pipe Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	M.S Seamless Pipe	1	25.00x3.40	86.70	3300	4500	381	519	0.50	25.00	
2	M.S Seamless Pipe	4	24.20x6.10	147.62	5400	7400	359	492	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	-	
-			-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-			-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-			-	-	-	-	-	-	-	-	
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,

Engineer's Representative
Metroplan - Asian Jv
Establishment Jinnah Institute of Cardlogy at Jinnah Hospital Lahore.

Reference # CED/TFL **6079** (Dr. M Kashif) Dated: 03-12-2024
Reference of the request letter # Metroplan-Asian JV JIC-JHL-RE-301-2024 Dated: 02-12-2024

Weight &Size Test Report

Date of Test 06-12-2024
Description M.S Seamless Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	**1**	**252**	**101.7**	**2.48**	**32.60**	**25.84**	**3.38**	
2	**4**	**1644**	**101.9**	**16.13**	**113.4**	**101.20**	**6.10**	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for 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,

Engineer's Representative
Metroplan - Asian Jv
Establishment Jinnah Institute of Cardlogy at Jinnah Hospital Lahore.

Reference # CED/TFL **6080** (Dr. M Kashif) Dated: 03-12-2024
Reference of the request letter # Metroplan-Asian JV JIC-JHL-RE-298-2024 Dated: 02-12-2024

Tension Test Report (Page – 1/1)

Date of Test 06-12-2024
Gauge length 2 inches
Description G.I Sheet Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(swg)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	**GI Sheet**	**22**	**26.30xs0.80**	**21.04**	**500**	**760**	**233**	**354**	**0.50**	**25.00**	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-			-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-			-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-			-	-	-	-	-	-	-	-	
Only One Sample 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,

Manager Projects
REDO
SPL Boiler Civil Works at StarchPack Plant, Kasur.

Reference # CED/TFL **6081** (Dr. M Kashif) Dated: 03-12-2024
Reference of the request letter # QC/TST/2371-001 Dated: 02-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
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	0.407	3	0.390	0.11	0.120	4050	5070	81200	74570	101600	93400	1.10	13.8	
2	0.412	3	0.393	0.11	0.121	4180	5250	83800	76060	105200	95600	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
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

To,

M/S Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **6083** (Dr. M Kashif) Dated: 03-12-2024
Reference of the request letter # VECO/2024/0518/1755 Dated: 03-12-2024

Tension Test Report (Page – 1/1)

Date of Test 06-12-2024
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	8200	80.44	9800	96.14	<3.50 Not ok	2
2	9.53 (3/8")	430.0	434.0	10600	103.99	11500	112.82	>3.50	4
3	9.53 (3/8")	430.0	434.0	11000	107.91	11500	112.82	>3.50	5
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only three samples for Test									

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
PHE Sub Division-I, DG Khan
(Sewerage Line from Gadai Chungi to Circuit House DeraGhazi Khan.)

Reference # CED/TFL **6084** (Dr. M Kashif) Dated: 03-12-2024
Reference of the request letter # 26 Dated: 18-11-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.094	3/16	0.187	-------	0.028	1120	1270	-------	89720	-------	101800	0.80	10.0	
2	0.095	3/16	0.189	-------	0.028	1120	1290	-------	88090	-------	101500	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

3/16" Dia Bar Bend Test Through 180º 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 Manager
AR Enterprise
Alfatah Emall Project.

Reference # CED/TFL **6086** (Dr. M Kashif) Dated: 03-12-2024
Reference of the request letter # AEM/ST/UET/14/10 Dated: 03-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
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	0.379	3	0.377	0.11	0.111	3570	5250	71600	70580	105200	103800	1.10	13.8	Markhor Steel
-	0.376	3	0.375	0.11	0.111	3410	5220	68400	68010	104600	104100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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:
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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,
HIGH-Q
Construction of HIGH-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL **6098** (Dr. M Kashif) Dated: 03-12-2024
Reference of the request letter # QC/HQ/CIVIL/247 Dated: 03-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.358	10	9.30	0.12	0.105	3260	4610	59892	68290	84693	96600	1.40	17.5	
2	0.358	10	9.30	0.12	0.105	3470	4660	63750	72580	85612	97500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Bar Bend Test Through 180º 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,

Engineer's Representative
NESPAK - TurkPak JV
Construction of Green Building for EMC, EPD and Allied New Entities Established under PGDP (DLI-2, PGDP) Lahore

Reference # CED/TFL **6091** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # 4731/MAA/03/120 Dated: 02-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2023
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	3310	5170	66400	67650	103600	105700	1.00	12.5	Markhor
2	0.369	3	0.372	0.11	0.108	3260	5150	65400	66280	103200	104800	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:
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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
Al-Imam Enterprises (Pvt) Ltd.
Construction of Zonal Office Building of Bank Al Habib Limited, Main Boulevard Gulberg, Lahore. (Civil & Structure Works Package.)

Reference # CED/TFL **6092** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # ALM/BAHL/0412/1204 Dated: 04-12-2024

Tension Test Report (Page -1/2)

Date of Test 06-12-2024
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	0.363	3	0.368	0.11	0.107	3360	4150	67400	69500	83200	85900	1.40	17.5	Mughal Steel
2	0.366	3	0.370	0.11	0.108	4050	4760	81200	83000	95400	97600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
Al-Imam Enterprises (Pvt) Ltd.
Construction of Zonal Office Building of Bank Al Habib Limited, Main Boulevard Gulberg, Lahore. (Civil & Structure Works Package.)

Reference # CED/TFL **6092** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # ALM/BAHL/0412/1204 Dated: 04-12-2024

Tension Test Report (Page -2/2)

Date of Test 06-12-2024
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	4.204	10	1.254	1.27	1.236	38600	53400	67000	68850	92700	95300	1.50	18.8	Mughal Steel
2	4.223	10	1.257	1.27	1.241	38600	53800	67000	68550	93400	95600	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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
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

Sub Divisional Officer
Building Sub Division
Punjab Assembly, Lahore.
(Construction of Press Briefing Hall at Provincial Assembly of The Punjab alongwith Allied Facilities in Punjab Assembly Building Lahore.)

Reference # CED/TFL **6093** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # 1272 Dated: 02-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.383	3/8	0.378	0.11	0.112	3590	5220	72000	70360	104600	102300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia 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
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,

Head Construction Site
ABL – UML P-199 & 200
Allied Bank
Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL **6094** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # ABL-UML-AMC-QAQC-100 Dated: 03-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
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	0.370	3	0.372	0.11	0.109	3570	4740	71600	72280	95000	96000	1.20	15.0	FF Steel
2	0.368	3	0.371	0.11	0.108	3590	4710	72000	73230	94400	96100	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
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

Sub Divisional Officer
Building Sub Division No. 12
Lahore
(Revamping of Old Block of Punjab Institute of Mental Health Lahore (OPD Block))

Reference # CED/TFL **6095** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # 631 Dated: 30-11-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.355	3/8	0.364	0.11	0.104	3690	4760	74000	77970	95400	100600	1.10	13.8	FF Steel
2	0.362	3/8	0.368	0.11	0.106	3690	4860	74000	76460	97400	100800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia 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
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,

Assistant Director (QCD)
WASA, LDA, Lahore.
(M/s Allah Yasir Pipe Factory.)

Reference # CED/TFL **6096** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # QCD/2425 Dated: 03-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
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	0.370	3	0.372	0.11	0.109	3920	4940	78600	79340	99000	100000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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
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
NESPAK
Expansion of Joint Chek Post Wagha, Lahore.

Reference # CED/TFL **6097** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # 4749/031/YK/01/102 Dated: 04-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
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	0.373	3	0.374	0.11	0.110	3180	4840	63800	63860	97000	97200	1.50	18.8	Aziz Steel
2	0.372	3	0.373	0.11	0.109	3130	4590	62800	63170	92000	92700	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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
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
NESPAK – TurkPak JV
Reconstruction of Lady Willingdon Hospital, Lahore.

Reference # CED/TFL **6099** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # 4729/13/MA/04/143 Dated: 03-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-11-2024
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	0.373	3	0.373	0.11	0.110	3430	5050	68800	69030	101200	101700	1.20	15.0	AF Steel
2	0.372	3	0.373	0.11	0.109	3410	5050	68400	68830	101200	102000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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
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

Sub Divisional Officer
Buildings Sub Division,
Mankkera
(Programme for Revamping of 552 BHU's of North & Central Punjab (Phase-I))
(One at BHU Chak No. 67 ML Tehsil Mankera.)

Reference # CED/TFL **6100** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # 264 Dated: 10-11-2024

Tension Test Report (Page -1/1)

Date of Test 06-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.377	3/8	0.376	0.11	0.111	3470	5070	69600	69060	101600	100900	1.10	13.8	
2	0.379	3/8	0.377	0.11	0.111	3430	5050	68800	67890	101200	100000	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

Sub Divisional Officer
Buildings Sub Division,
Bhakkar
(Programme for Revamping of 552 BHU's of North & Central Punjab (Phase-I))
(Revamping of Basic Health Unit at District Bhakkar, One at Notak.)

Reference # CED/TFL **6101** (Dr. M Kashif) Dated: 04-12-2024
Reference of the request letter # 836 Dated: 19-10-2024

Tension Test Report (Page -1/1)

Date of Test 06-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.376	3/8	0.375	0.11	0.111	3470	4990	69600	69190	100000	99500	1.10	13.8	
2	0.376	3/8	0.375	0.11	0.110	3430	5010	68800	68470	100400	100100	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,
HIGH-Q
Construction of HIGH-Q Tower at CBD, Lahore.

Reference # CED/TFL **6102** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # QC/HQ/CIVIL/001 Dated: 03-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.367	10	9.41	0.12	0.108	3690	5580	67791	75390	102514	114100	1.00	12.5	
2	0.358	10	9.30	0.12	0.105	3720	5580	68343	77850	102514	116800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm 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
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

Sub Divisional Officer
Buildings Sub Division,
Bahawalnagar
(Revamping of 581 BHUS of South Punjab (Phase-I) Basic Health Units of District Bahawalnagar Tehsil Bahawalnagar.)

Reference # CED/TFL **6103** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # 6017 Dated: 30-09-2024

Tension Test Report (Page -1/1)

Date of Test 06-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.377	3/8	0.376	0.11	0.111	4030	4560	80800	80110	91400	90700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia 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
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 (UOS) - DCS
Development Consultancy Services (Pvt) Ltd.
Development of University of Sahiwal at District Sahiwal
(Construction of Academic Block, Admin Block, Mosque and External Development.)

Reference # CED/TFL **6104** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # DCS/RE/UOS/2024/1205 Dated: 05-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-12-2024
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	0.381	3	0.378	0.11	0.112	3920	4960	78600	77050	99400	97500	0.80	10.0	AK Supreme
2	0.381	3	0.378	0.11	0.112	3890	4990	78000	76590	100000	98300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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
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 Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-083/24 Dated: 03-12-2024

Tension Test Report (Page – 1/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	38	27.50x38.30	1053.25	44600	52400	415	488	1.40	70.00	
2	TT-02	38	25.30x38.30	968.99	43000	49600	435	502	1.40	70.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-082/24 Dated: 03-12-2024

Tension Test Report (Page – 2/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	30	26.40x32.40	855.36	33400	49400	383	567	1.00	50.00	
2	TT-02	30	25.90x32.40	839.16	34800	49200	407	575	1.30	65.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-081/24 Dated: 03-12-2024

Tension Test Report (Page – 3/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	25	22.00x25.30	556.60	19800	31600	349	557	1.10	55.00	
2	TT-02	25	21.80x25.30	551.54	19600	31200	349	555	1.20	60.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-080/24 Dated: 03-12-2024

Tension Test Report (Page – 4/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	20	27.40x19.60	537.04	19400	29600	354	541	1.00	50.00	
2	TT-02	20	27.80x20.10	558.78	20400	30000	358	527	1.10	55.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-079/24 Dated: 03-12-2024

Tension Test Report (Page – 5/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	16	28.40x15.40	437.36	18000	22600	404	507	1.10	55.00	
2	TT-02	16	28.40x15.60	443.04	18000	22500	399	498	1.20	60.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-078/24 Dated: 03-12-2024

Tension Test Report (Page – 6/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	12	28.20x11.70	329.94	15600	20700	464	615	1.00	50.00	
2	TT-02	12	28.20x11.80	332.76	15600	20600	460	607	1.00	50.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-077/24 Dated: 03-12-2024

Tension Test Report (Page – 7/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	10	28.00x9.70	271.60	14000	16600	506	600	0.90	45.00	
2	TT-02	10	28.00x9.70	271.60	14000	16700	506	603	0.90	45.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

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

To,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-076/24 Dated: 03-12-2024

Tension Test Report (Page – 8/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	8	29.00x7.80	226.20	10100	13100	438	568	1.00	50.00	
2	TT-02	8	29.10x7.80	226.98	10100	13100	437	566	0.90	45.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-075/24 Dated: 03-12-2024

Tension Test Report (Page – 9/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	6	26.00x5.75	149.50	7700	9500	505	623	0.80	40.00	
2	TT-02	6	28.10x5.80	162.98	8200	10600	494	638	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-074/24 Dated: 03-12-2024

Tension Test Report (Page – 10/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	5	28.40x5.00	142.00	7000	8800	484	608	0.90	45.00	
2	TT-02	5	25.50x5.10	130.05	6300	8000	475	603	0.90	45.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-073/24 Dated: 03-12-2024

Tension Test Report (Page – 11/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description HR Plate 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)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	4	28.50x4.00	114.00	5200	6300	447	542	0.90	45.00	
2	TT-02	4	25.60x3.75	96.00	4800	5700	491	582	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

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

To,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-085/24 Dated: 03-12-2024

Tension Test Report (Page – 12/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description GI Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	2	25.60x1.80	46.08	2240	2680	477	571	0.60	30.00	
2	TT-02	2	25.80x1.80	46.44	2240	2640	473	558	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-086/24 Dated: 03-12-2024

Tension Test Report (Page – 13/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description GI Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	2.5	25.60x2.50	64.00	3540	3920	543	601	0.50	25.00	
2	TT-02	2.5	25.50x2.30	58.65	3560	3920	595	656	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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,

M/S Banu Mukhtar Steel (Pvt) Ltd.
Lahore

Reference # CED/TFL **6105** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # BMSQA.QC-084/24 Dated: 03-12-2024

Tension Test Report (Page – 14/14)

Date of Test 06-12-2024
Gauge length 2 inches
Description GI Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	TT-01	1.5	25.60x1.20	30.72	1400	1840	447	588	0.70	35.00	
2	TT-02	1.5	25.40x1.30	33.02	1400	1840	416	547	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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,
Sillanwali (tehsil Sahiwal)
(Programme for Revamping of 552 BHU's of North & Central Punjab – Basic Health Units of District & Tehsil Sargodha, Tehsil Kot Momin & Tehsil Sahiwal (Phase-I))

Reference # CED/TFL **6106** (Dr. M Kashif) Dated: 05-12-2024
Reference of the request letter # E-24/209 Dated: 16-10-2024

Tension Test Report (Page -1/1)

Date of Test 06-11-2024
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	0.379	3	0.377	0.11	0.112	3300	4800	66200	65220	96200	94900	1.40	17.5	
2	0.376	3	0.375	0.11	0.110	3300	4900	66200	65830	98200	97800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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
Engineering Consultancy Services Punjab (Pvt) Ltd.
Model Cattle Market Shahpur Kanjra, Lahore.

Reference # CED/TFL **6109** (Dr. M Kashif) Dated: 06-12-2024
Reference of the request letter # ECSP/MCML/10 Dated: 03-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-11-2024
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	0.370	3	0.372	0.11	0.109	4100	5100	82200	83180	102200	103500	0.80	10.0	Kisan
2	0.368	3	0.371	0.11	0.108	4200	5200	84200	85580	104200	106000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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
Engineering Consultancy Services Punjab (Pvt) Ltd.
Model Cattle Market Shahpur Kanjra, Lahore.

Reference # CED/TFL **6109** (Dr. M Kashif) Dated: 06-12-2024
Reference of the request letter # ECSP/MCML/10 Dated: 03-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-11-2024
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	0.376	3	0.375	0.11	0.111	3300	4600	66200	65820	92200	91800	0.80	10.0	Kisan
2	0.376	3	0.375	0.11	0.111	3200	4600	64200	63750	92200	91700	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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2. The above results pertain to sample /samples supplied to this laboratory.
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