



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
Construction of Railway Underpass Gojra, istrict Toba Tek Singh

Reference # CED/TFL **3771** (Dr. Rizwan Azam)
Reference of the request letter # P4595/23/MA/03

Dated: 21-08-2023
Dated: 25-06-2023

Tension Test Report (Page -1/1)

Date of Test 22-08-2023
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	0.387	3	0.381	0.11	0.114	4150	5020	83200	80360	100600	97300	0.90	11.3	Kisan Steel
2	0.387	3	0.381	0.11	0.114	4150	4960	83200	80440	99400	96200	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														

Witness by Syed Bilal Ghazi (Chief Material Specialist NESPAK)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 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 Constructions
Construction of High-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL **3772** (Dr. M Rizwan Riaz)
Reference of the request letter # QC/HQ/CIVIL/123

Dated: 21-08-2023
Dated: 19-08-2023

Tension Test Report (Page -1/1)

Date of Test 22-08-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.182	32	31.78	1.25	1.229	37000	49200	65256	66340	86773	88300	1.60	20.0	
2	4.263	32	32.08	1.25	1.253	34400	47000	60671	60510	82893	82700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia 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,

Chief Executive
Midcity Housing Private Limited
Over Head Water Tank (150000 Gallons) in Midcity Housing Lahore

Reference # CED/TFL **3773** (Dr. Usman Akmal)

Dated: 22-08-2023

Reference of the request letter # MCH/UET/LT/08/2023/01

Dated: 21-08-2023

Tension Test Report (Page -1/1)

Date of Test 24-08-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.401	3/8	0.388	0.11	0.118	3900	4900	78200	72880	98200	91600	1.00	12.5	
2	0.398	3/8	0.386	0.11	0.117	4100	5100	82200	77220	102200	96100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratories
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 Abid Majeed Iron Store
 Lahore

Reference # CED/TFL **3774** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 22-08-2023
 Dated: 22-08-2023

Tension Test Report (Page -1/1)

Date of Test 24-08-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.397	3	0.385	0.11	0.117	3600	5200	72200	68030	104200	98300	0.80	10.0	Islamabad Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: 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,
M/S Engineering Service Co.
Lahore

Reference # CED/TFL **3775 (Dr. Usman Akmal)**
Reference of the request letter # ESC/UET/WT

Dated: 22-08-2023
Dated: 21-08-2023

Tension Test Report (Page -1/1)

Date of Test 24-08-2023
Gauge length 8 inches
Description GI Wire Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (SWG)	Actual (mm)	Nominal	Actual							
1	0.091	8	3.85	----	11.6	----	480	----	405	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Material Engineer
NESPAK
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP) Engineering
Design and Construction Supervision (EDCS)
“Cluster Central - I, Tehsil Bhowana (Contract Package – BNA-01)

Reference # CED/TFL **3777** (Dr. Usman Akmal)

Dated: 22-08-2023

Reference of the request letter # NESPAK (PRSWSSP) BHOWANA - RE-07 Dated: 17-08-2023

Tension Test Report (Page -1/1)

Date of Test 24-08-2023

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	0.369	3	0.372	0.11	0.108	3400	4900	68200	69110	98200	99600	1.30	16.3	FF Steel
2	0.368	3	0.371	0.11	0.108	3400	4900	68200	69370	98200	100000	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														

I/C Testing Laboratories
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,

Assistant Director
 Watwr & Sanitation Agency
 FDA, Faisalabad
 “Enhancement of Pumping Capacity and Improvement of Civil Structures of Different Disposal Station of WASA Faisalabad. (Construction of Disposal Station Chokera-II)”

Reference # CED/TFL **3778** (Dr. Usman Akmal)

Dated: 23-08-2023

Reference of the request letter # 189/AD/DC-II/WASA2023

Dated: 15-08-2023

Tension Test Report (Page -1/1)

Date of Test 24-08-2023

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	0.381	3	0.378	0.11	0.112	3200	4800	64200	62900	96200	94400	1.20	15.0	
2	0.380	3	0.377	0.11	0.112	3200	4700	64200	63160	94200	92800	1.10	13.8	
3	0.377	3	0.375	0.11	0.111	3200	4700	64200	63710	94200	93600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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,

Construction Manager
Barqaab Consulting Services (Pvt) Limited
Procurement of Plant, Design, Supply, Installation, Testing and Commissioning of
500/220/132kV Lahore North Substation and Extension Works at 500/220/132kV Nokhar
Substation.

Reference # CED/TFL **3779** (Dr. Nauman Khurram)

Dated: 23-08-2023

Reference of the request letter # 500kV/SS/N-LHR/BQB/128

Dated: 21-08-2023

Tension Test Report (Page -1/1)

Date of Test 24-08-2023

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	0.378	3	0.376	0.11	0.111	3620	4940	72600	71870	99000	98100	1.00	12.5	FF Steel
2	0.386	3	0.380	0.11	0.113	3690	5050	74000	71730	101200	98200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by M Adnan (Civil Engineer) and Rana Zahid (F.M EHVI)

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
 G3 Engineering Consultant (Pvt) Ltd.
 Construction of Residential Area (G-20, G-18-19, Family Flats, Male & Female Faculty Hostels, Guest House & Masjid) at University of Narowal (New Campus) against the Project “ Strengthening & Expansion of University of Gujrat & Allied Campuses” (Narowal Component)

Reference # CED/TFL **3781** (Dr. Usman Akmal)
 Reference of the request letter # G3/UON-RE/366

Dated: 23-08-2023
 Dated: 22-08-2023

Tension Test Report (Page -1/1)

Date of Test 24-08-2023

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	0.374	3/8	0.374	0.11	0.110	3500	4800	70200	70180	96200	96300	1.30	16.3	Sheikhoo Steel
2	0.373	3/8	0.374	0.11	0.110	3600	4800	72200	72290	96200	96400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Project Director
 Overseas Construction Co. (Pvt) Ltd
 Gulberg City Centre, Lahore

Reference # CED/TFL **3782** (Dr. Usman Akmal)
 Reference of the request letter # OCC/Steel/48

Dated: 24-08-2023
 Dated: 24-08-2023

Tension Test Report (Page -1/1)

Date of Test 24-08-2023
 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	4.236	10	1.259	1.27	1.245	40800	57600	70900	72230	100000	102000	1.40	17.5	SJ Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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