



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

To,

M/SPOWERCHINA SEPCO1, Pakistan
 Design, Manufacturing, Supply, Installation, Testing and Commission Lot-1; Extension Works (1 x 600MVA) and Augmentation Works (3 x 160 to 3 x 250MVA) at 500kV Nokhar Grid Station.

Reference # CED/TFL **4510** (Dr. M Kashif)

Dated: 17-01-2024

Reference of the request letter # WB-10A-GS-SEPCO1-90 Dated: 16-01-2024

Tension Test Report (Page -1/1)

Date of Test 19-01-2024

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.405	10	9.89	0.12	0.119	3920	5610	72017	72600	103065	103900	1.70	21.3	
2	0.411	10	9.96	0.12	0.121	4000	5660	73487	72940	103984	103200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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Witness by Ibrar Ahmed (Senior Engr. NESPAK)

To,

Project Manager

M. Ahmad Associates

Construction of ABL Branch 5147 at P-463 Shadman Colony-1, Lahore.

Reference # CED/TFL **4511** (Dr. M Kashif)

Dated: 17-01-2024

Reference of the request letter # Nil

Dated: 17-01-2024

Tension Test Report (Page -1/1)

Date of Test 19-01-2024

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	0.377	3	0.376	0.11	0.111	3820	4960	76600	75980	99400	98700	1.40	17.5	
2	0.377	3	0.376	0.11	0.111	3870	4960	77600	76970	99400	98700	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 Laboratories
UET Lahore, Pakistan.

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To,

Resident Engineer
IDAP
Infrastructure Development Authority of Punjab
Design, Procurement, Deployment and Commissioning of CCTV, Control Room and Data
Centre (Computer & Core) Infrastructure on EPC/Turnkey Basis for Punjab Police
Integrated Command, Control and Communication (PPIC3) Faisalabad.

Reference # CED/TFL **4515** (Dr. M Kashif)

Dated: 18-01-2024

Reference of the request letter # PPIC3-FSD/IDAP/2024/0001

Dated: 16-01-2024

Tension Test Report (Page -1/1)

Date of Test 19-01-2024

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	0.365	3/8	0.370	0.11	0.107	3740	5370	75000	76840	107600	110400	1.20	15.0	Ittehad Steel
2	0.366	3/8	0.370	0.11	0.108	3770	5400	75600	77220	108200	110700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
Assistant Director
Defence Housing Authority, Gujranwala
"Construction of 10 Marla Villas (Block A)"

Reference # CED/TFL 4517 (Dr. M Kashif)
Reference of the request letter # 111/3/AD Bldg/Lab/1302

Dated: 18-01-2024
Dated: 17-01-2024

Tension Test Report (Page -1/1)

Date of Test 19-01-2024
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	0.110	3720	5300	74600	74280	106200	105900	1.10	13.8	SJ Steel
2	0.380	3	0.377	0.11	0.112	4000	5630	80200	78850	112900	111000	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 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,

Dy Dir Dev
Defence Housing Authority, Gujranwala
“Const of Sec Comm Shops (Village Space)”

Reference # CED/TFL **4518** (Dr. M Kashif)

Dated: 18-01-2024

Reference of the request letter # 111/3/AD/Dev/Techno Time/09

Dated: 06-12-2023

Tension Test Report (Page -1/1)

Date of Test 19-01-2024

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	0.409	3	0.391	0.11	0.120	4580	5880	91800	84070	117900	108000	1.00	12.5	
2	0.395	3	0.385	0.11	0.116	4430	5760	88800	84010	115500	109300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,

AGM Projects
Izhar Construction (Pvt) Ltd.
Construction of Dolmen Shopping Mall DHA Lahore.

Reference # CED/TFL **4519** (Dr. M Kashif)

Dated: 18-01-2024

Reference of the request letter # ICPL/CONST-DML/21/450

Dated: 18-01-2024

Tension Test Report (Page -1/1)

Date of Test 19-01-2024

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.418	10	10.05	0.12	0.123	4350	5710	79917	78000	104902	102400	1.50	18.8	Sheikhoo Steel
2	0.412	10	9.97	0.12	0.121	4250	5580	78080	77360	102514	101600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,

M/S Meezan Developers
Lahore
(Construction of Jamia Tur Rasheed Lahore Campus)

Reference # CED/TFL 4522 (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 18-01-2024
Dated: 18-01-2024

Tension Test Report (Page -1/1)

Date of Test 19-01-2024
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	0.370	3	0.372	0.11	0.109	3940	4960	79000	79790	99400	100500	1.10	13.8	
2	0.372	3	0.373	0.11	0.109	4050	5010	81200	81670	100400	101100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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,
 Director (Civil)
 Mineral Development Project
 Islamabad
 (TLP(367/24)Civil (C16))

Reference # CED/TFL **4523** (Dr. M Kashif)
 Reference of the request letter # MDP-C&S-Gen(1)/2024

Dated: 19-01-2024
 Dated: 15-01-2024

Tension Test Report (Page -1/2)

Date of Test 19-01-2024
 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	0.372	3	0.373	0.11	0.109	4000	5220	80200	80560	104600	105200	1.10	13.8	FF Steel
2	0.372	3	0.373	0.11	0.109	3940	5200	79000	79400	104200	104800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Director (Civil)
 Mineral Development Project
 Islamabad
 (TLP(383/24)Civil (C16))

Reference # CED/TFL **4523** (Dr. M Kashif)
 Reference of the request letter # MDP-C&S-Gen(1)/2024

Dated: 19-01-2024
 Dated: 15-01-2024

Tension Test Report (Page -2/2)

Date of Test 19-01-2024
 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	0.374	3	0.374	0.11	0.110	3940	5220	79000	79010	104600	104700	1.00	12.5	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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