



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
Shakargarh
(Programme for Revamping of All T.H.Q. Hospitals in Punjab one at Shakargarh)

Reference # CED/TFL **5464** (Dr. Ali Ahmed)
Reference of the request letter # 1656/Sg

Dated: 06-08-2024
Dated: 06-01-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.367	3/8	0.371	0.11	0.108	3600	4800	72200	73560	96200	98100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

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,
 Deputy Team Leader / Resident Engineer Project Manager
 Techno – Consult International (Pvt) Ltd.
 PRSWSS Project – North
 “Procurement of Civil Works, North,

Reference # CED/TFL **5465** (Dr. Ali Ahmed)

Dated: 06-08-2024

Reference of the request letter # TCI/PRSWSSP-NORTH/PHASE-V/KLK-04/017 Dated: 13-07-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test

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	0.090	3/16	0.184	-----	0.027	860	1240	-----	71480	-----	103100	0.90	11.3	Al-Makkah
2	0.092	3/16	0.185	-----	0.027	880	1440	-----	72040	-----	117900	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 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,

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 **5468** (Dr. Ali Ahmed)
Reference of the request letter # 4731/MAA/03/70

Dated: 06-08-2024
Dated: 06-08-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2023
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	0.364	3	0.369	0.11	0.107	3200	5100	64200	65880	102200	105000	1.20	15.0	Markhor
2	0.362	3	0.368	0.11	0.106	3100	4900	62200	64220	98200	101600	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.

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,
Site Engineer
SMA Sikander (Contractor)
Monument Site Suki Kinari Naran.

Reference # CED/TFL **5469** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 06-08-2024
Dated: 05-08-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024
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	0.362	3	0.368	0.11	0.106	3300	4800	66200	68330	96200	99400	1.30	16.3	
2	0.362	3	0.368	0.11	0.106	3400	4900	68200	70410	98200	101500	1.20	15.0	
3	0.363	3	0.369	0.11	0.107	3500	4800	70200	72320	96200	99200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
Head Quality Assurance
FF Steel
Hayatabad Industrial Estate, Peshawar

Reference # CED/TFL **5470** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 06-08-2024
Dated: 06-08-2024

Tension Test Report (Page – 1/1)

Date of Test 08-08-2024
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	12	0.52	8200	
2	16	0.90	14400	
3	18	1.17	17800	
4	20	1.39	21400	
5	28	3.22	31000	
Only five 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,

Resident Engineer
NESPAK
Improvement of Infrastructure in Mohlanwal Housing Scheme, Lahore (Package-3).

Reference # CED/TFL **5471** (Dr. Ali Ahmed)

Dated: 07-08-2024

Reference of the request letter # 2599/13/RK/MWL/P-3/209

Dated: 22-07-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024

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	0.371	3	0.373	0.11	0.109	3600	4900	72200	72810	98200	99100	1.10	13.8	FF Steel
2	0.374	3	0.374	0.11	0.110	3500	4800	70200	70190	96200	96300	1.10	13.8	
3	4.093	10	1.238	1.27	1.203	37200	51600	64600	68150	89600	94600	1.40	17.5	
4	4.139	10	1.245	1.27	1.217	38200	52400	66300	69210	91000	95000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 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,

Construction Manager
Elite Engineering Pvt. Ltd.
Construction of PSO Fuel Dispensing Facility at PAK Railway's Workshop, Lahore.

Reference # CED/TFL **5472** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 06-08-2024
Dated: 06-08-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024
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	0.367	3	0.371	0.11	0.108	3000	4600	60200	61280	92200	94000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Sagheer Ahmed (Lab. Technician Elite Engineering Pvt. Ltd.)

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 Jameel
40-C-III
Gulberg III, Lahore

Reference # CED/TFL **5473** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 06-08-2024
Dated: 06-08-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.369	3	0.372	0.11	0.108	3100	4900	62200	62980	98200	99600	1.10	13.8	
2	0.366	3	0.370	0.11	0.108	3100	4900	62200	63460	98200	100300	1.30	16.3	
3	0.359	3	0.367	0.11	0.106	3100	4900	62200	64720	98200	102300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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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- 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 Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5476** (Dr. Ali Ahmed)
Reference of the request letter # WRD/010/LAB050

Dated: 06-08-2024
Dated: 06-08-2024

Tension Test Report (Page – 1/1)

Date of Test 08-08-2024
Description Steel Wire Rope (IWRC GI) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	14 (6x19)	0.77	13000	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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 Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **5477** (Dr. Ali Ahmed)
Reference of the request letter # WRD/010/LAB051

Dated: 06-08-2024
Dated: 06-08-2024

Tension Test Report (Page – 1/1)

Date of Test 08-08-2024
Description Steel Wire Rope (H/C GI) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	18 (6x19)	1.14	18200	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

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,

Contractor Representative
 CCECC – HCS Jv
 Expansion of Terminal Building and Allied Facilities at Allama Iqbal International
 Airport (AIIAP), Lahore.

Reference # CED/TFL **5478** (Dr. Ali Ahmed)

Dated: 06-08-2024

Reference of the request letter # CCECCHCSJV AIIAP2024-168

Dated: 06-08-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024

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	3400	5300	68200	67620	106200	105500	1.30	16.3	Aziz Industries
2	0.376	3	0.375	0.11	0.111	3400	5200	68200	67800	104200	103700	1.20	15.0	
3	4.299	10	1.268	1.27	1.264	36400	59200	63200	63490	102800	103300	1.60	20.0	
4	4.297	10	1.268	1.27	1.263	35800	59000	62200	62480	102400	103000	1.50	18.8	
5	4.294	10	1.268	1.27	1.262	35800	57800	62200	62510	100400	101000	1.40	17.5	
6	4.291	10	1.267	1.27	1.261	35400	57600	61500	61860	100000	100700	1.50	18.8	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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- 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

Resident Engineer
NESPAK – TurkPak jv
Reconstruction of Lady Willingdon Hospital, Lahore.

Reference # CED/TFL **5479** (Dr. Ali Ahmed)
Reference of the request letter # 4729/13/MA/04/76

Dated: 07-08-2024
Dated: 31-07-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024
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	0.371	3	0.373	0.11	0.109	4000	5400	80200	80800	108200	109100	0.80	10.0	AF 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.

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 Incharge
Tayba Developers
Construction of Tayba Developers Plaza No. 15-A3 Kasuri Road, Gulberg Lahore.

Reference # CED/TFL **5481** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 07-08-2024
Dated: 07-08-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024
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	3200	4700	64200	64900	94200	95400	1.30	16.3	
2	0.374	3	0.374	0.11	0.110	3200	4700	64200	64210	94200	94400	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.

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,
Head QA/QC
Al-A'Zamiyya Block Phase 1
Lahore.

Reference # CED/TFL **5482** (Dr. Ali Ahmed)
Reference of the request letter # Alz./ST/008

Dated: 07-08-2024
Dated: 07-08-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2023
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	0.366	3	0.370	0.11	0.107	3600	4800	72200	73860	96200	98500	1.30	16.3	
2	0.364	3	0.369	0.11	0.107	3600	4800	72200	74170	96200	98900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,
Dy Dir Infra
Defence Housing Authority, Gujranwala
"Sector - D."

Reference # CED/TFL **5483** (Dr. Ali Ahmed)
Reference of the request letter # 111/15/AD/RS/Lab/Sec-D/92

Dated: 07-08-2024
Dated: 05-08-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024
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	0.359	3	0.366	0.11	0.105	3000	4300	60200	62690	86200	89900	1.40	17.5	SJ Steel
2	0.372	3	0.373	0.11	0.109	3000	4400	60200	60480	88200	88700	1.20	15.0	
3	4.441	10	1.289	1.27	1.305	40600	54400	70500	68550	94500	91900	1.40	17.5	
4	4.447	10	1.290	1.27	1.307	40600	54800	70500	68460	95200	92500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 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 Engineer
 Struc - Arch Pakistan
 Construction of New 500 kV Circuit Breaker Foundation at Roush Power Plant,
 Khanewal, Pakistan.

Reference # CED/TFL **5484** (Dr. Ali Ahmed)
 Reference of the request letter # Rousch/24/MU/01

Dated: 08-08-2024
 Dated: 06-08-2024

Tension Test Report (Page -1/1)

Date of Test 08-08-2024
 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	0.402	3	0.388	0.11	0.118	3600	5200	72200	67190	104200	97100	1.30	16.3	S.J Steel
2	0.414	3	0.394	0.11	0.122	3600	5300	72200	65170	106200	96000	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.

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