



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 S.A. Sheikh & Co
Lahore

Reference # CED/TFL **1942** (Dr. M Rizwan Riaz)
Reference of the request letter # SASheikh/WB-SMS/INSP2

Dated: 13-09-2022

Dated: 13-09-2022

Tension Test Report (Page – 1/1)

Date of Test 19-09-2022
Gauge length 2 inches
Description 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 ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Steel Strip	24.80x5.50	136.40	5100	7700	367	554	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample 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,
Lt Col
SPM (Jv) PEC Bldg Proj
NLC Engineers – Tijaarat Developers (Jv)
Construction of PEC Regional Office, Lahore

Reference # CED/TFL **1945** (Dr. M Rizwan Riaz)
Reference of the request letter # 901/NLC-TD (JV)/PEC/848

Dated: 13-09-2022

Dated: 13-09-2022

Tension Test Report (Page – 1/3)

Date of Test 19-09-2022
Gauge length 2 inches
Description Fire Fighting 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	2 1/2	25.70x5.90	151.63	8000	10800	518	699	0.40	20.00	
2		25.60x5.30	135.68	9500	11400	687	824	0.40	20.00	
3	3	25.60x6.60	168.96	10000	12800	581	743	0.50	25.00	
4		25.80x6.30	162.54	9900	12100	598	730	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Lt Col
SPM (Jv) PEC Bldg Proj
NLC Engineers – Tijaarat Developers (Jv)
Construction of PEC Regional Office, Lahore

Reference # CED/TFL 1945 (Dr. M Rizwan Riaz)
Reference of the request letter # 901/NLC-TD (JV)/PEC/848

Dated: 13-09-2022
Dated: 13-09-2022

Seamless/Flattening Test Report (Page – 2/3)

Date of Test 19-09-2022
Description Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	Pipe 2 1/2"	Ductility	crack was observed
		Soundness	failed
2	Pipe 3"	Ductility	crack was observed
		Soundness	failed
-	-	-	-
		-	-
-	-	-	-
		-	-
-	-	-	-
		-	-
-	-	-	-
		-	-
Only Two Samples for Test			

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Lt Col
SPM (Jv) PEC Bldg Proj
NLC Engineers – Tijaarat Developers (Jv)
Construction of PEC Regional Office, Lahore

Reference # CED/TFL 1945 (Dr. M Rizwan Riaz)
Reference of the request letter # 901/NLC-TD (JV)/PEC/848

Dated: 13-09-2022
Dated: 13-09-2022

Weight & Size Test Report (Page – 3/3)

Date of Test 19-09-2022
Gauge length -----
Description Fire Fighting 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	2½	541	60.00	9.02	73.90	62.90	5.50	
2	3	781	60.00	13.02	89.40	76.40	6.50	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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Ref: CED/TFL/09/1946

Dated: 14-09-2022

Dated of Test: 17-09-2022

To
Project Manager
China Energy Engineering Group
Northeast No. 2 Electric Power Construction Co., Ltd
Procurement of Plant - Design, Manufacture, Supply, Installation, Testing & Commissioning
of 500kV Double Circuit Quad Bundle Transmission Line from Suki Kinari Hydro Power
Station to Interconnection Point of Existing Neelum Jhelum 500kV Double Circuit Quad
Bundle Transmission Line (approx. 75km)

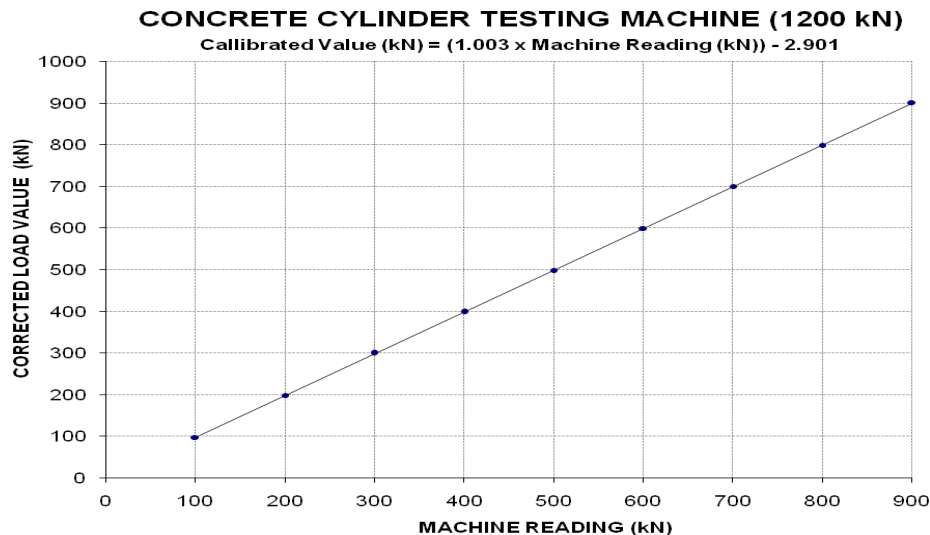
Subject:- CALIBRATION OF CONCRETE CYLINDER RESTING MACHINE OF 1200 kN
(MARK: CED/TFL/09/1946)

Reference to your letter No. DD-401A-FA-1667, dated: 07/09/2022 on the subject cited above.
One Concrete Cylinder Testing Machine has been calibrated by using standard calibration device. The results
are tabulated as under:

Total Range : Zero - 1200 (kN)

Calibrated Rang : Zero - 900 (kN)

Machine Reading (kN)	100	200	300	400	500	600	700	800	900
Corrected Load Value	97	198	300	399	499	599	700	799	901



I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
M/S S.A. Sheikh & Co
Lahore

Reference # CED/TFL **1951** (Dr. M Rizwan Riaz)
Reference of the request letter # SASheikh/WB-SMS/INSP2-2

Dated: 14-09-2022
Dated: 14-09-2022

Tension Test Report (Page – 1/3)

Date of Test 19-09-2022
Gauge length 2 inches
Description Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Steel Strip	24.50x4.90	120.05	4000	6300	327	515	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile and One Sample for Bend Test										
Bend Test										
Steel Strip Bend Through 180° in Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S S.A. Sheikh & Co
Lahore

Reference # CED/TFL **1951** (Dr. M Rizwan Riaz)
Reference of the request letter # SASheikh/WB-SMS/INSP2-4

Dated: 14-09-2022
Dated: 14-09-2022

Tension Test Report (Page – 2/3)

Date of Test 19-09-2022
Gauge length 2 inches
Description 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 ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Steel Strip	24.50x13.50	330.75	13000	20300	386	602	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S S.A. Sheikh & Co
Lahore

Reference # CED/TFL **1951** (Dr. M Rizwan Riaz)
Reference of the request letter # SASheikh/WB-SMS/INSP2-3

Dated: 14-09-2022

Dated: 14-09-2022

Tension Test Report (Page – 3/3)

Date of Test 19-09-2022
Gauge length 2 inches
Description 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 ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Steel Strip	24.50x6.20	151.90	5700	9300	368	601	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Construction Manager
 Minky & Associates (Pvt) Limited
 34-S, Gulberg II, Lahore

Reference # CED/TFL **1956** (Dr. M Rizwan Riaz)
 Reference of the request letter # MA/UET/34/22913

Dated: 15-09-2022
 Dated: 13-09-2022

Tension Test Report (Page -1/1)

Date of Test 19-09-2022
 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	0.360	3/8	0.367	0.11	0.106	3400	4800	68200	70730	96200	99900	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 180° is Satisfactory														

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,
 Garrison Engineer (Army)-I
 Gujranwala
 (CA No. ENC-A-81/2022 – Const of 8 D Type Flats (G+3) HQ 2 Arty Div at Gwa Cantt)
 (Gde-40)

Reference # CED/TFL **1958** (Dr. M Rizwan Riaz)
 Reference of the request letter # 6180-2564/18/E-6

Dated: 15-09-2022
 Dated: 13-09-2022

Tension Test Report (Page -1/4)

Date of Test 19-09-2022
 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	0.365	3/8	0.370	0.11	0.107	3500	4500	70200	71920	90200	92500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Garrison Engineer (Army)-I
 Gujranwala
 (CA No. ENC-A-81/2022 – Const of 8 D Type Flats (G+3) HQ 2 Arty Div at Gwa Cantt)
 (Gde-60)

Reference # CED/TFL **1958** (Dr. M Rizwan Riaz)
 Reference of the request letter # 6180-2564/18/E-6

Dated: 15-09-2022
 Dated: 13-09-2022

Tension Test Report (Page -2/4)

Date of Test 19-09-2022
 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	0.399	3/8	0.387	0.11	0.117	3700	5100	74200	69510	102200	95800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Garrison Engineer (Army)-I
 Gujranwala
 (CA No. ENC-A-94/2022 – Const of 8 D Type Flats (G+3) at Gwa Cantt)
 (Gde-60)

Reference # CED/TFL **1958** (Dr. M Rizwan Riaz)
 Reference of the request letter # 6180-2561/12/E-6

Dated: 15-09-2022
 Dated: 13-09-2022

Tension Test Report (Page -3/4)

Date of Test 19-09-2022
 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	0.399	3/8	0.387	0.11	0.117	3700	5200	74200	69510	104200	97700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Garrison Engineer (Army)-I
 Gujranwala
 (CA No. ENC-A-94/2022 – Const of 8 D Type Flats (G+3) at Gwa Cantt)
 (Gde-60)

Reference # CED/TFL **1958** (Dr. M Rizwan Riaz)
 Reference of the request letter # 6180-2561/12/E-6

Dated: 15-09-2022
 Dated: 13-09-2022

Tension Test Report (Page -4/4)

Date of Test 19-09-2022
 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	0.380	3/8	0.377	0.11	0.112	3200	5000	64200	63210	100200	98800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Senior Manager Project - Civil
 Vision Foods & Packaging Limited
 Volka Food International Limited
 Multan

Reference # CED/TFL **1962** (Engr. Ubaid Ahmed)
 Reference of the request letter # VFI/Civil/14

Dated: 15-09-2022
 Dated: 14-09-2022

Tension Test Report (Page -1/1)

Date of Test 19-09-2022
 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	0.387	3/8	0.381	0.11	0.114	3300	4800	66200	63870	96200	92900	1.40	17.5	
2	0.361	3/8	0.367	0.11	0.106	3200	4500	64200	66560	90200	93600	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 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,
 Director / Deputy Inspector General of Police
 Special Protection Unit (SPU)
 Punjab, Lahore
 (Construction of Specialized Protection Unit Headquarter at Ladhiekey Uchey Tehsil Raiwind District Lahore)
 Reference # CED/TFL **1963** (Dr. M Rizwan Riaz) Dated: 15-09-2022
 Reference of the request letter # 15125/BC/SPU Dated: 16-08-2022

Tension Test Report (Page -1/1)

Date of Test 19-09-2022
 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	0.373	3	0.374	0.11	0.110	2700	4000	54100	54220	80200	80400	1.50	18.8	Ittefaq Steel
2	0.371	3	0.373	0.11	0.109	2700	4000	54100	54570	80200	80900	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 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,
M/S Fast Engineering
Lahore
(Zaitoon Group – New Lahore City)

Reference # CED/TFL 1966 (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 16-09-2022
Dated: 12-09-2022

Tension Test Report (Page -1/1)

Date of Test 19-09-2022
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	3400	4600	68200	65870	92200	89200	1.00	12.5	FF Steel
2	0.380	3	0.377	0.11	0.112	3400	4500	68200	67050	90200	88800	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,
 Resident Engineer
 NESPAK
 Kotla Mosa Khan to Kachi Mor Ans Flyover at Firdus Cinema Phatak, District Bahawalpur

Reference # CED/TFL **1967** (Dr. M Rizwan Riaz)
 Reference of the request letter # RE/MSA/BWP/01

Dated: 16-09-2022
 Dated: 15-09-2022

Tension Test Report (Page -1/1)

Date of Test 19-09-2022
 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	4.305	10	1.269	1.27	1.266	30600	47200	53200	53300	82000	82300	1.40	17.5	FF Steel
2	4.306	10	1.269	1.27	1.266	30600	47600	53200	53290	82700	82900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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.

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,
 Mr. Tanveer Ahmed
 Deputy Manager Procurement

Reference # CED/TFL **1968** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 16-09-2022
 Dated: 15-09-2022

Tension Test Report (Page -1/2)

Date of Test 19-09-2022
 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	3700	4800	74200	72860	96200	94600	1.00	12.5	Batala 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:

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

To,
 Mr. Tanveer Ahmed
 Deputy Manager Procurement

Reference # CED/TFL **1968** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 16-09-2022
 Dated: 15-09-2022

Tension Test Report (Page -2/2)

Date of Test 19-09-2022
 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	0.371	3	0.373	0.11	0.109	3700	4700	74200	74690	94200	94900	1.30	16.3	Kisaan 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:

- 1- You can See your reports On Internet in the following web site
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 NESPAK

Construction of Bypass from Royal Hotel (N-5) to Sawar Chowk via Ada Mai Wali Masjid,
 Length = 13.70 km. (Phase-II) Section from Kachi Pakki Road to N-5 (Royal Hotel) Length =
 3.93 km including Construction of Flyover Bridge over Railway Track, LBDC and N-5 in
 District Sahiwal

Reference # CED/TFL **1969** (Dr. M Rizwan Riaz)

Dated: 16-09-2022

Reference of the request letter # 4267/Sahiwal/ADP/Flyover/AF/15

Dated: 10-09-2022

Tension Test Report (Page -1/1)

Date of Test 19-09-2022

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	4.311	10	1.270	1.27	1.267	39600	53800	68800	68880	93400	93600	1.70	21.3	SJ Steel
2	4.309	10	1.270	1.27	1.267	40000	53800	69500	69610	93400	93700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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.

Note:

- 1- You can See your reports On Internet in the following web site
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To
M/S SM Associates
Lahore
(Corporate Tower, 15 A Ali Block New Garden Town)

Reference # CED/TFL **1970** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 16-09-2022
Dated: 16-09-2022

Tension Test Report (Page -1/1)

Date of Test 19-09-2022
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	4.252	10	1.261	1.27	1.250	44600	56200	77500	78660	97600	99200	1.40	17.5	
2	4.248	10	1.261	1.27	1.249	42800	54600	74300	75560	94800	96400	1.50	18.8	
3	4.281	10	1.266	1.27	1.258	43600	55400	75700	76380	96200	97100	1.50	18.8	
4	4.359	10	1.277	1.27	1.281	43600	55600	75700	75000	96500	95700	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 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
 Assistant Purchase Officer
 Zephyr Textile Ltd
 Lahore

Reference # CED/TFL 1971 (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 16-09-2022
 Dated: 16-09-2022

Tension Test Report (Page -1/1)

Date of Test 19-09-2022
 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	0.361	3	0.368	0.11	0.106	3000	4600	60200	62280	92200	95500	1.30	16.3	
2	0.361	3	0.368	0.11	0.106	3000	4600	60200	62280	92200	95500	1.20	15.0	
3	0.359	3	0.367	0.11	0.106	3000	4600	60200	62660	92200	96100	1.20	15.0	
4	0.360	3	0.367	0.11	0.106	3000	4600	60200	62560	92200	96000	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														
#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,
 Project Engineer
 Defence Housing Authority
 Gujranwala
 "Sector-C"

Reference # CED/TFL **1972** (Dr. M Rizwan Riaz)
 Reference of the request letter # 111/15/PE/RS/Pkg-2A/630

Dated: 19-09-2022
 Dated: 17-09-2022

Tension Test Report (Page -1/3)

Date of Test 19-09-2022
 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	4.157	10	1.247	1.27	1.222	38400	53200	66700	69260	92400	96000	1.40	17.5	FF Steel
2	4.173	10	1.250	1.27	1.227	37800	53000	65600	67920	92000	95300	1.60	20.0	
3	4.098	10	1.238	1.27	1.205	37600	52400	65300	68800	91000	95900	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

Witness by Amir Shehzad (L.T)

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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- 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 Engineer
 Defence Housing Authority
 Gujranwala
 "Sector-C"

Reference # CED/TFL **1972** (Dr. M Rizwan Riaz)
 Reference of the request letter # 111/15/PE/RS/Pkg-2A/629

Dated: 19-09-2022
 Dated: 17-09-2022

Tension Test Report (Page -2/3)

Date of Test 19-09-2022
 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	4.230	10	1.258	1.27	1.243	34400	53600	59700	60990	93100	95100	1.80	22.5	FF Steel
2	4.177	10	1.250	1.27	1.228	33600	51600	58400	60320	89600	92700	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Amir Shehzad (L.T)

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,
 Project Engineer
 Defence Housing Authority
 Gujranwala
 "Sector-C"

Reference # CED/TFL **1972** (Dr. M Rizwan Riaz)
 Reference of the request letter # 111/15/PE/RS/Pkg-2A/628

Dated: 19-09-2022
 Dated: 17-09-2022

Tension Test Report (Page -3/3)

Date of Test 19-09-2022
 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	4.184	10	1.251	1.27	1.230	35200	52000	61100	63090	90300	93200	1.50	18.8	FF Steel
2	4.152	10	1.247	1.27	1.220	34400	51400	59700	62130	89300	92900	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Amir Shehzad (L.T)

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

Ref: CED/TFL/09/1973

Dated: 19-09-2022

Dated of Test: 19-09-2022

To

M/s National Technocommercial Services (Private) Limited
Lahore

Subject: - BREAKING LOAD TEST OF LUG MK 59 (NTS with Harding)
(Page # 1/2)

Reference to your Letter No. NTS/DC-Lug59/DC/22, dated: 19/09/2022, on the subject cited above. One Lug (dia 44 mm, Length 66.5mm) with assembly as received by us has been tested. The results are shown below:

Breaking Load : 17400 kg

Remarks : Lug was broken

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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



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

Ref: CED/TFL/09/1973

Dated: 19-09-2022

Dated of Test: 19-09-2022

To

M/s National Technocommercial Services (Private) Limited
Lahore

Subject: - BREAKING LOAD TEST OF LUG MK 43A (NTS with Harding)
(Page # 2/2)

Reference to your Letter No. NTS/DC-Lug43A/22, dated: 19/09/2022, on the subject cited above. One Lug (dia 44 mm, Length 59mm) with assembly as received by us has been tested. The results are shown below:

Breaking Load : 19800 kg

Remarks : Lug was broken

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Ideal Construction Service
Lahore
(FMH Tower Lahore)

Reference # CED/TFL **1980** (Dr. Asad Ali)
Reference of the request letter # ICS/786/446

Dated: 19-09-2022
Dated: 19-09-2022

Tension Test Report (Page -1/1)

Date of Test 19-09-2022
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	3770	5150	75600	75980	103200	103800	1.10	13.8	
2	0.368	3	0.371	0.11	0.108	3790	5270	76000	77200	105600	107400	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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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples