



**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

Fabrication & Installation of Pedestrian overhead Bridge in Front of U.E.T. Gate # 3, Across G.T. Road, Lahore

Reference # CED/TFL **35450** (Dr. M Rizwan Riaz)

Dated: 01-10-2020

Reference of the request letter # 4047-R/13/RK/07/SE/110

Dated: 23-09-2020

**Tension Test Report** (Page -1/2)

Date of Test 08-10-2020

Gauge length 2 inches

Description Anchor Bolt Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	5.665	30	30.31	-----	721.7	65000	95800	884	1302	0.80	40.00	
2	7.641	35	35.20	-----	973.4	46000	58200	464	587	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>												
Bend Test												

**I/C Testing Laboratories**  
**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](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



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**Pakistan. Ph: 92-42-99029202**

To,  
Resident Engineer  
NESPAK  
Fabrication & Installation of Pedestrian overhead Bridge in Front of U.E.T. Gate # 3, Across G.T.  
Road, Lahore

Reference # CED/TFL **35450** (Dr. M Rizwan Riaz)  
Reference of the request letter # 4047-R/13/RK/07/SE/110

Dated: 01-10-2020  
Dated: 23-09-2020

**Slippage Test Report** (Page -2/2)

Date of Test 08-10-2020  
Description Anchor Bolt Slippage Test

Sr. No.	Dia	Failure Load	Mode of Failure	Remarks
	(mm)	(kg)	---	
1	30	44000	Thread Failure Slippage	-
2	35	36000	Thread Failure Slippage	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
<b>Note: only two samples for test</b>				

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

Note:

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

To,  
 Resident Engineer / Team Leader  
 Prime Engineering Consultancy  
 Kallurkot Bridge Project  
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **35461** (Dr. M Rizwan Riaz)  
 Reference of the request letter # KK-DIK--BR-PJ/2020/192

Dated: 06-10-2020  
 Dated: 05-10-2020

**Tension Test Report** (Page -1/2)

Date of Test 08-10-2020  
 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 <sup>2</sup> )		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	4.062	32	31.32	1.25	1.194	34600	51200	61023	63870	90300	94600	1.40	17.5	Abbas Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
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,  
 Resident Engineer / Team Leader  
 Prime Engineering Consultancy  
 Kallurkot Bridge Project  
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **35461** (Dr. M Rizwan Riaz)  
 Reference of the request letter # KK-DIK--BR-PJ/2020/191

Dated: 06-10-2020  
 Dated: 05-10-2020

**Tension Test Report** (Page -2/2)

Date of Test 08-10-2020  
 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 <sup>2</sup> )		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	4.283	32	32.16	1.25	1.259	39000	52000	68784	68290	91711	91100	1.40	17.5	Pak Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Project Manager  
 Izhar Construction (Pvt) Ltd  
 Construction of Production Hall & Raw Material Store at Orient Material (Pvt) Ltd at M3-  
 Industrial Area, Faisalabad

Reference # CED/TFL **35470** (Dr. Ali Ahmed) Dated: 07-10-2020  
 Reference of the request letter # ICPL/CONST-OMPL/20/056 Dated: 06-10-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-10-2020  
 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 <sup>2</sup> )		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	0.404	3/8	0.389	0.11	0.119	4000	5500	80200	74310	110200	102200	0.80	10.0	
2	0.400	3/8	0.387	0.11	0.118	3800	5400	76200	71240	108200	101300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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

To,  
 Resident Engineer  
 ACE, Danish School  
 Mankera Residency  
 Establishment of Daanish School (Boys & Girls) at Mankera District Bhakkar

Reference # CED/TFL **35471** (Dr. Usman Akmal) Dated: 07-10-2020  
 Reference of the request letter # ACE/RE-PDS/MNK/BHK/20/341 Dated: 05-10-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-10-2020  
 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 <sup>2</sup> )		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	0.378	3/8	0.376	0.11	0.111	3300	5200	66200	65520	104200	103300	0.80	10.0	
2	0.376	3/8	0.375	0.11	0.111	3400	5200	68200	67810	104200	103800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
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,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Extrenal Elec Works U/G, DHA Ph-IX Prism, (Pkg-II & IV) (M/s NLC)

Reference # CED/TFL **35472** (Dr. Usman Akmal)  
Reference of the request letter # 408/241/E/Lab/992/48

Dated: 07-10-2020  
Dated: 01-10-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-10-2020  
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 <sup>2</sup> )		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	3200	4800	64200	64690	96200	97100	1.40	17.5	S.J. Steel
2	0.372	3	0.373	0.11	0.109	3100	4800	62200	62550	96200	96900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**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,  
 Assistant Executive Engineer-IV  
 Central Civil Division No. II,  
 Pak P.W.D., Lahore  
 (Construction of International Hostel & Class Room at DOT Complex Allama Iqbal Town  
 Lahore

Reference # CED/TFL **35473** (Dr. Ali Ahmed)

Dated: 07-10-2020

Reference of the request letter # AEE-III/CCD-II/LHR/23

Dated: 29-09-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-10-2020

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 <sup>2</sup> )		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	0.375	3/8	0.375	0.11	0.110	3800	5200	76200	75920	104200	103900	1.00	12.5	
2	0.378	3/8	0.376	0.11	0.111	3900	5200	78200	77400	104200	103200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
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 Manager  
 Aujla & Associates  
 Warehouse Building Columns Royal Palm City Housing Scheme Gujranwala

Reference # CED/TFL **35475** (Dr. Usman Akmal)  
 Reference of the request letter # Nil

Dated: 07-10-2020  
 Dated: 07-10-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-10-2020  
 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 <sup>2</sup> )		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	0.375	0.11	0.111	3400	4300	68200	67680	86200	85600	1.00	12.5	
2	0.366	3	0.370	0.11	0.108	3800	4700	76200	77890	94200	96400	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 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,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Const of U/G Extnl Elec and Street Light Sys in Re-Planned Area of Sec U, X & Y, DHA Ph-VII (AA) (M/s EBC)

Reference # CED/TFL **35477** (Dr. Usman Akmal)  
Reference of the request letter # 408/241/E/Lab/1000/32

Dated: 07-10-2020  
Dated: 06-10-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-10-2020  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/size		Area (in <sup>2</sup> )		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	0.365	3	0.370	0.11	0.107	3700	4700	74200	75990	94200	96600	1.00	12.5	Mughal Steel
2	0.362	3	0.368	0.11	0.106	3600	4500	72200	74600	90200	93300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Pakistan. Ph: 92-42-99029202**

To,  
Project Manager  
Dupak Properties (Pvt) Ltd  
Defence view Apartments at Shanghai Road, Lahore

Reference # CED/TFL **35480** (Dr. M Rizwan Riaz)  
Reference of the request letter # Dupak/DVA/050

Dated: 08-10-2020  
Dated: 08-10-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-10-2020  
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 <sup>2</sup> )		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	0.368	3	0.371	0.11	0.108	3100	4200	62200	63250	84200	85700	1.40	17.5	
2	0.368	3	0.371	0.11	0.108	3200	4200	64200	65190	84200	85600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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