



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 **35449** (Dr. M Rizwan Riaz) Dated: 01-10-2020
 Reference of the request letter # 4047-R/13/RK/07/SE/111 Dated: 23-09-2020

Tension Test Report (Page – 1/3)

Date of Test 09-10-2020
 Gauge length 2 inches
 Description Steel Structure Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	I-Beam	700x300x24x13	28.75x12.90	370.88	15400	20000	407.34	529.02	0.60	30.00	
2			28.75x12.90	370.88	14900	19700	394.12	521.08	0.60	30.00	
3	I-Beam	300x100x7x6	26.00x6.00	156.00	5500	7600	345.87	477.92	0.70	35.00	
4			26.00x6.00	156.00	5300	7500	333.29	471.63	0.80	40.00	
5	Base Plate	40	25.70x40.20	1033.14	40800	55600	387.41	527.94	1.20	60.00	
6			25.70x40.20	1033.14	41200	55600	391.21	527.94	1.10	55.00	
7	Channel	250x88x8x10	28.90x8.00	231.20	7300	12500	309.74	530.38	0.65	32.50	
8			28.90x8.00	231.20	7600	12500	322.47	530.38	0.65	32.50	
9	Cheaqured Plate	6	26.00x6.00	156.00	5000	7400	314.42	465.35	0.55	27.50	
10			26.00x6.00	156.00	5300	7400	333.29	465.35	0.60	30.00	
Only Ten Sample for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

Weight & Size Test Report (Page – 2/3)

Date of Test 09-10-2020
Gauge length -----
Description M.S.I-Beam & Channel Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (b _f)	Flange Thickness (t _f)	Web Thickness (t _w)	Remark
	(mm)									
1	I-Beam	700x300x24x13	108450	60.00	180.75	700.00	300.00	24.00	13.00	
2	Channel	250x88x8x10	16900	60.60	27.89	254.00	77.60	11.20	8.20	
3	I-Beam	300x100x7x6	16850	60.9	27.67	303.00	100.00	7.00	6.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Three Samples for Test										

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

Weight & Size Test Report (Page – 4/8)

Date of Test 09-10-2020
Gauge length -----
Description M.S Plate & M.S. Chequerred Sheet Weight and Size Test

Sr. No.	Designation		Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)	(mm)						
1	Base Plate	40	30000	61.30	15.50	315.74	40.20	
2	Cheaqured Plate	6	8654	60.1	30.00	48.00	6.00	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

I/C Testing Laboratoires
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To,
Deputy CRE
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project
(10 Engrs – FWO (LSMP))

Reference # CED/TFL **35465** (Dr. M Rizwan Riaz)
Reference of the request letter # LSMP/DCRE/2020/1888

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

Tension Test Report (Page – 1/1)

Date of Test 09-10-2020
Gauge length 2 inches
Description Mesh Wire for Gabion Tensile Test

Sr. No.	Diameter / size	Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Marks
	(cm)	(cm ²)	(kg)	(kg/cm ²)	(inch)		
1	0.405	0.13	570	4424.61	0.40	20.00	Span : 1, 2, 3 and 6 of Bridge # 04 (26+893)
2	0.405	0.13	540	4191.74	0.50	25.00	
3	0.405	0.13	530	4114.11	0.40	20.00	
4	0.405	0.13	540	4191.74	0.40	20.00	Span : 1 and 3 of Bridge # 05 (30+236)
5	0.405	0.13	540	4191.74	0.40	20.00	
6	0.405	0.13	550	4269.36	0.40	20.00	
-	-	-	-	-	-	-	
Only Six Samples for Tensile Test							

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project
(10 Engineers Battalion FWO (LSMP))

Reference # CED/TFL **35466** (Dr. M Rizwan Riaz)
Reference of the request letter # LSMP/DCRE/2020/1884

Dated: 06-10-2020
Dated: 03-10-2020

Tension Test Report (Page – 1/1)

Date of Test 09-10-2020
Gauge length 2 inches
Description Mesh Wire for Gabion Tensile Test

Sr. No.	Diameter / size	Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Marks
	(cm)	(cm ²)	(kg)	(kg/cm ²)	(inch)		
1	0.405	0.13	550	4269.36	0.50	25.00	
2	0.405	0.13	550	4269.36	0.40	20.00	
3	0.405	0.13	540	4191.74	0.40	20.00	
4	0.405	0.13	540	4191.74	0.40	20.00	
5	0.405	0.13	550	4269.36	0.30	15.00	
6	0.405	0.13	550	4269.36	0.30	15.00	
-	-	-	-	-	-	-	
Only Six Samples for Tensile Test							

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works at Sector-Q, Pkg-1, DHA Ph-IX (M/s DHA-C))

Reference # CED/TFL **35474** (Dr. M Rizwan Riaz)
Reference of the request letter # 408/241/E/Lab/999/6143

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

Tension Test Report (Page -1/1)

Date of Test 09-10-2020
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 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	0.380	3	0.377	0.11	0.112	3700	6100	74200	72960	122300	120300	1.00	12.5	Mughal Steel
2	0.381	3	0.378	0.11	0.112	3900	5800	78200	76750	116300	114200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Project Manager
 Kingcrete Builders
 Construction of Cargo Building at Allama Iqbal International Airport Lahore

Reference # CED/TFL **35479** (Dr. M Rizwan Riaz) Dated: 08-10-2020
 Reference of the request letter # KB/GD_CB/AHA-LHR/032 Dated: 08-10-2020

Tension Test Report (Page -1/1)

Date of Test 09-10-2020
 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 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	0.111	3100	4700	62200	61800	94200	93700	1.50	18.8	
2	0.375	3	0.375	0.11	0.110	3100	4700	62200	62010	94200	94100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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