



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
 SMEC International Pty Ltd
 Peshawar–Karachi Motorway (PKM) Consultants Sukkur – Multan Section (392 km) (Section-6)

Reference # CED/TFL **32688** (Dr. M Rizwan Riaz)
 Reference of the request letter # 5065057/6/6/404

Dated: 25-02-2019
 Dated: 20-02-2019

Tension Test Report (Page – 1/1)

Date of Test 05-02-2019
 Gauge length 2 inches
 Description Steel Foundation Plate 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	Plate	24.40x15.75	384.30	12500	18100	319.09	462.04	0.60	30.00	
2	Plate	24.40x15.75	384.30	12000	17900	306.32	456.93	0.60	30.00	
3	Plate	24.10x20.10	484.41	15200	23100	307.82	467.81	0.70	35.00	
4	Plate	24.10x20.10	484.41	15000	23400	303.77	473.88	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Tow Samples for Bend Test										
Bend Test										
Strip Taken from Steel Foundation Plate Bend Test Through 180° is Satisfactory										
Strip Taken from Steel Foundation Plate 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
 China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I.Khan)
 Motorway, Package-3

Reference # CED/TFL **32737** (Dr. Waseem Abbas) Dated: 01-03-2019
 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/836 Dated: 28-02-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019
 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	0.368	10	9.43	0.11	0.108	3600	5500	72200	73260	110200	112000	1.30	16.3	Ittefaq Steel
2	0.371	10	9.46	0.11	0.109	3500	5500	70200	70810	110200	111300	1.20	15.0	
3	4.229	32	31.96	1.27	1.243	38200	51200	66300	67730	88900	90800	1.60	20.0	Nomnee Steel
4	4.241	32	32.00	1.27	1.247	39600	51400	68800	70020	89300	90900	1.70	21.3	
5	5.485	36	36.39	1.56	1.612	51000	73600	72100	69720	104000	100700	1.30	16.3	
6	5.346	36	35.93	1.56	1.571	50400	71000	71300	70690	100400	99600	1.50	18.8	
Note: only Six samples for tensile and three samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
36mm Dia Bar Bend Test Through 180° is Satisfactory														
36mm 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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To,
 Project Manager
 Unicon Consulting Services (Pvt)Ltd
 Construction of MCB, Karrianwala Branch, District Gujrat

Reference # CED/TFL **32743** (Dr. Waseem Abbas)
 Reference of the request letter # Nil

Dated: 01-03-2019
 Dated: 19-02-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019
 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	0.373	3/8	0.373	0.11	0.110	3200	5200	64200	64400	104200	104700	1.20	15.0	
2	0.373	3/8	0.373	0.11	0.110	3300	5200	66200	66420	104200	104700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
M/S Engineering Design Bureau
Lahore

Reference # CED/TFL **32745-746** (Dr. M Rizwan Riaz)
Reference of the request letter # EDB/06

Dated: 01-03-2019

Dated: 01-03-2019

Tension Test Report (Page – 1/1)

Date of Test 05-02-2019
Gauge length 2 inches
Description Steel Angle 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	3x3/6	23.50x4.20	98.70	3000	5400	298.18	536.72	0.55	27.50	
2		23.50x4.50	105.75	3600	5800	333.96	538.04	0.60	30.00	
3	2 ¹ / ₂ x3/16	23.40x4.70	109.98	4600	6600	410.31	588.71	0.50	25.00	
4		23.50x4.80	112.80	4500	6600	391.36	573.99	0.55	27.50	
5	2x3/16	23.40x4.80	112.32	4900	6800	427.96	593.91	0.55	27.50	
6		23.40x4.80	112.32	4800	6700	419.23	585.18	0.50	25.00	
Only Six Samples for Tensile Test										
Bend Test										

Muhammad Shahzad (Site Engineer EDB Lahore)

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
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To,
 Project Engineer
 Design & Engineering Systems (Pvt) Ltd
 Construction of Civil Infrastructure at Naval Anchorage Gawadar

Reference # CED/TFL **32747** (Dr. Waseem Abbas)
 Reference of the request letter # DES/NAG/PMU/100

Dated: 01-03-2019
 Dated: 28-02-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019
 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	0.063	5/32	0.154	-----	0.019	800	950	-----	95000	-----	112900	0.80	10.0	
2	0.060	5/32	0.150	-----	0.018	750	900	-----	93920	-----	112700	0.70	8.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
5/32" 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
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To,
 Sub Divisional Officer
 Buildings Sub Division
 Jaranwala

(Re-Construction of 09-Class Rooms (24'x16') with Veranda at Govt. Community Model Girls Elementary School at Chak No. 61/GB, Tehsil Jaranwala, District Faisalabad)

Reference # CED/TFL **32749** (Dr. Waseem Abbas)

Dated: 04-03-2019

Reference of the request letter # 2403/J

Dated: 25-02-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019

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	0.368	3/8	0.371	0.11	0.108	2500	3500	50100	50910	70200	71300	1.70	21.3	
2	0.390	3/8	0.382	0.11	0.115	2900	4100	58200	55710	82200	78800	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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 Hafiz Traders
Lahore

Reference # CED/TFL **32750** (Dr. Waseem Abbas)
Reference of the request letter # Nil

Dated: 04-03-2019
Dated: 04-03-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019
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	0.371	3/8	0.373	0.11	0.109	2800	4000	56200	56540	80200	80800	1.70	21.3	
2	0.375	3/8	0.375	0.11	0.110	2900	4200	58200	57970	84200	84000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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,
 QS
 Ess Ess Associates
 Construction of Family Wing Hospital 250 Beds at Sarfraz Rafique Road Lahore

Reference # CED/TFL **32751** (Dr. Waseem Abbas)
 Reference of the request letter # Nil

Dated: 04-03-2019
 Dated: 01-03-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019
 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	0.371	0.11	0.108	3500	4800	70200	71170	96200	97700	1.20	15.0	
2	0.371	3	0.373	0.11	0.109	3600	4900	72200	72690	98200	99000	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,
 Resident Engineer
 NESPAK
 Construction of UET Lahore, Narowal Campus at Narowal

Reference # CED/TFL **32753** (Dr. Waseem Abbas)
 Reference of the request letter # 3854/13/SA//07/536

Dated: 04-03-2019
 Dated: 28-02-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019
 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	0.383	3/8	0.378	0.11	0.112	4000	5300	80200	78400	106200	103900	1.20	15.0	
2	0.387	3/8	0.381	0.11	0.114	4000	5300	80200	77500	106200	102700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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STRUCTURAL ENGINEERING DIVISION
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Const. of Mosque at Sector-D, DHA Ph-VI)(M/s Warraich Constr)

Reference # CED/TFL **32754** (Dr. M Rizwan Riaz)
Reference of the request letter # 408/241/E/Lab/467/001

Dated: 04-03-2019
Dated: 04-03-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019
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	0.368	3	0.371	0.11	0.108	3000	5000	60200	61140	100200	101900	1.60	20.0	Afco Steel
2	0.372	3	0.373	0.11	0.109	3000	5000	60200	60400	100200	100700	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.

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Test Floor Laboratory
Department of Civil Engineering
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To,
 Client Engineer
 Solitaire of UAE (Pvt) Ltd
 Heritage Boutique Hotel Project

Reference # CED/TFL **32755** (Dr. Waseem Abbas)
 Reference of the request letter # HBH/UET/11

Dated: 04-03-2019
 Dated: 04-03-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019
 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	3400	4600	68200	71050	92200	96200	1.20	15.0	
2	0.357	3	0.365	0.11	0.105	3500	4600	70200	73560	92200	96700	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
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Development Works Sector-E, DHA Ph-IX (M/s Inland))

Reference # CED/TFL **32756** (Dr. Waseem Abbas)
Reference of the request letter # 408/241/E/Lab/469/107

Dated: 04-03-2019
Dated: 04-03-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019
Gauge length -----
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight (Kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Elongation (mm)	% Elongation	Remarks
		Nominal (in)	Actual (mm)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.113	5/32	4.29	12.82	14.45	1100	1350	842	747	1033	916	----	----	
2	0.115	5/32	4.32	12.82	14.64	850	1000	650	570	765	670	----	----	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
5/32" Dia 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
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To,
 Assistant Executive Engineer-III
 Central Civil Division No. II
 Pak. P.W.D., Lahore
 (Construction of National Book Foundation Author's Club & Resource Center at 45 Civic Center Mustafa Town, Lahore)
 Reference # CED/TFL **32757** (Dr. Waseem Abbas) Dated: 04-03-2019
 Reference of the request letter # AEE-III/LCCD-II/135 Dated: 21-02-2019

Tension Test Report (Page -1/1)

Date of Test 05-03-2019
 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	0.369	3/8	0.371	0.11	0.108	-----	5800	-----	-----	116300	118000	0.60	7.5	
2	0.360	3/8	0.367	0.11	0.106	-----	6200	-----	-----	124300	129300	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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



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