



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 – II
 Zeeruk International (Pvt) Ltd
 Lahore – Sialkot Motorway (Section II & III)
 (Toll Plaza 12 Lane RD: 90+270.696)(Star Engineering (Pvt) Ltd)
 Reference # CED/TFL **33043** (Dr. Asif Hameed)
 Reference of the request letter # LSM/RE-II/St/19/165

Dated: 11-04-2019
 Dated: 10-04-2019

Tension Test Report (Page – 1/1)

Date of Test 15-04-2019
 Gauge length 2 inches
 Description Steel Structure Steel Strip Tensile and Bend Test as per ASTM-A36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Arch Heb	300x300	21.75x14.60	317.55	9600	14400	296.57	444.86	0.70	35.00	
2		300x300	21.85x14.60	319.01	9400	14100	289.06	433.59	0.70	35.00	
3	Beam Heb	250x250	22.60x15.80	357.08	14000	21100	384.62	579.68	0.70	35.00	
4		250x250	22.30x14.75	328.93	13800	20000	411.58	596.49	0.55	27.50	
5	Angle	127x127	19.05x9.90	188.60	6600	9900	343.31	514.96	0.60	30.00	
6		127x127	22.10x10.00	221.00	7600	11650	337.36	517.13	0.60	30.00	
7	Sign Board Channel	250	22.30x8.05	179.52	7200	11500	393.46	628.44	0.70	35.00	
8		250	21.65x8.60	186.19	7600	11800	400.43	621.72	0.50	25.00	
Only Eight Samples for Tensile and Four Samples for Bend Test											
Bend Test											
Strip Taken from Arch Heb (300x300mm) Bend Test Through 180° is Satisfactory											
Strip Taken from Beam Heb (250x250mm) Bend Test Through 180° is Failed											
Strip Taken from Angle (127x127mm) Bend Test Through 180° is Satisfactory											
Strip Taken from Sign Board Channel (250mm) 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
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Manager Coordination
 Izhar Construction (Pvt) Ltd
 Hyundai Nishat Motor Pvt Limited, Faisalabad

Reference # CED/TFL **33046** (Dr. Qasim Khan) Dated: 11-04-2019
 Reference of the request letter # ICPL/CONST-HNMPL/19/28 Dated: 11-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.406	10	9.90	0.11	0.119	3900	5200	78200	72010	104200	96100	1.00	12.5	A
2	0.408	10	9.92	0.11	0.120	3900	5200	78200	71730	104200	95700	1.00	12.5	
3	0.403	10	9.87	0.11	0.119	4000	5200	80200	74340	104200	96700	1.00	12.5	B
4	0.403	10	9.86	0.11	0.118	3900	5200	78200	72600	104200	96800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm 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,
 Junior Research Officer-I
 Building Research Station
 Lahore
 (Pakistan Steel)

Reference # CED/TFL **33047** (Dr. Qasim Khan)
 Reference of the request letter # 154-R/865

Dated: 11-04-2019
 Dated: 10-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.162	32	31.70	1.27	1.223	41400	58400	71900	74590	101400	105300	1.20	15.0	
2	4.235	32	31.98	1.27	1.245	42600	60400	74000	75440	104900	107000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Failed														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
 Resident Engineer
 PEPAC
 Establishment of Workers Welfare Complex (Phase-I) Adjacent to Sundar Industrial Estate,
 District Kasur (Package-R)

Reference # CED/TFL **33051** (Dr. Qasim Khan)
 Reference of the request letter # RE/PEPAC/WWC/53-54

Dated: 11-04-2019
 Dated: 09-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.397	3/8	0.386	0.11	0.117	3400	4700	68200	64180	94200	88800	1.40	17.5	
2	0.374	3/8	0.374	0.11	0.110	3400	4500	68200	68170	90200	90300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
 Sub Divisional Officer
 Public Health Engg : Sub Division
 Choa Saiden Shah
 (Nutrition and Water Supply Scheme Village Sethi Tehsil Kallar Kahar, Distt. Chakwal)

Reference # CED/TFL **33054** (Dr. Qasim Khan)
 Reference of the request letter # 13/CSS

Dated: 11-04-2019
 Dated: 16-03-2019

Tension Test Report (Page -1/2)

Date of Test 15-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.442	3/8	0.407	0.11	0.130	3900	5800	78200	66120	116300	98400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

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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,
 Sub Divisional Officer
 Public Health Engg : Sub Division
 Choa Saiden Shah
 (Nutrition and Water Supply Scheme Village Sethi Tehsil Kallar Kahar, Distt. Chakwal)

Reference # CED/TFL **33054** (Dr. Qasim Khan)
 Reference of the request letter # 12/CSS

Dated: 11-04-2019
 Dated: 16-03-2019

Tension Test Report (Page -2/2)

Date of Test 15-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.435	3/8	0.403	0.11	0.128	3900	5800	78200	67300	116300	100100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
CFO
Indigo Developers
Gulberg-III, Lahore

Reference # CED/TFL **33055** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 11-04-2019
Dated: 11-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
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	0.372	0.11	0.109	3200	5000	64200	64730	100200	101200	1.30	16.3	
2	0.372	3	0.373	0.11	0.109	3200	5000	64200	64470	100200	100800	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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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 New Shalimar Steel Industries (Private) Limited
Shalimar Town, Lahore

Reference # CED/TFL **33056** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 12-04-2019

Dated: 11-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Grade
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.290	1/4	0.329	-----	0.085	1200	1700	-----	31060	-----	44000	0.90	11.3	
2	0.284	1/4	0.326	-----	0.084	1100	1600	-----	29030	-----	42300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
1/4" 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,
 Executive Engineer/DOT
 Fpr Projec Director/DOT
 Pakistan Railways, Headquarters Office, Lahore
 (Construction of 03 No. Class-III Staff Quarters (BSP - 11) neare Railway Dispensary at Sahiwal
 Connection with Doubling of Track on Kwl - RND Section)
 Reference # CED/TFL **33057** (Dr. Qasim Khan)
 Reference of the request letter # 211-W/301-D/DOT/KWL-RND

Dated: 12-04-2019
 Dated: 01-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Grade
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.344	3/8	0.359	0.11	0.101	3000	4700	60200	65360	94200	102400	0.60	7.5	
2	0.346	3/8	0.360	0.11	0.102	3000	4900	60200	65080	98200	106300	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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
 Buch International Hospital
 Multan

Reference # CED/TFL **33059** (Dr. Qasim Khan)
 Reference of the request letter # BIH/BV/3/4/18/13

Dated: 12-04-2019
 Dated: 03-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
 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	0.390	3	0.382	0.11	0.115	4200	5300	84200	80790	106200	102000	0.80	10.0	
2	0.380	3	0.377	0.11	0.112	4100	5100	82200	80980	102200	100800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 PM
 Pacecorcle
 Construction of Pace Circle

Reference # CED/TFL **33061** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 12-04-2019
 Dated: 11-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM – A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.376	10	9.52	0.11	0.110	3200	4900	64200	63880	98200	97900	1.60	20.0	
2	0.382	10	9.61	0.11	0.112	3300	5000	66200	64730	100200	98100	1.40	17.5	
3	4.214	32	31.90	1.27	1.239	38200	51800	66300	67970	89900	92200	1.50	18.8	
4	4.256	32	32.06	1.27	1.251	38800	53400	67400	68360	92700	94100	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
32mm 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-Civil
 Kohinoor Textile Mills Limited
 Construction of Admin Block, Al-Aleem Medical College, Gulab Devi Chest Hospital Lahore

Reference # CED/TFL **33063** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 12-04-2019
 Dated: 11-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
 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	0.385	3	0.380	0.11	0.113	3600	4800	72200	70070	96200	93500	1.20	15.0	
2	0.382	3	0.378	0.11	0.112	3500	4700	70200	68630	94200	92200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 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,
 Director Projects
 Filigree Enterprises
 (Boundary Wall Project)(Spark World Electronics (Pvt) Ltd)

Reference # CED/TFL **33064** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 12-04-2019
 Dated: 12-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
 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	Grade
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.414	3	0.394	0.11	0.122	4500	5700	90200	81460	114300	103200	0.90	11.3	40
2	0.403	3	0.388	0.11	0.118	4300	5500	86200	80000	110200	102400	1.30	16.3	
3	0.386	3	0.380	0.11	0.113	3900	5000	78200	75850	100200	97300	1.20	15.0	60
4	0.383	3	0.379	0.11	0.113	4100	5200	82200	80220	104200	101800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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
(Infra Dev Works of Prism-9, Pkg-7, (OHWT No. 1 & 4), Sector-J, DHA Ph-IX (M/s FWO))

Reference # CED/TFL **33065** (Dr. Qasim Khan)
Reference of the request letter # 408/241/E/Lab/526/69

Dated: 12-04-2019
Dated: 12-04-2019

Tension Test Report (Page – 1/1)

Date of Test 15-04-2019
Gauge length 2 inches
Description MS Pipe Steel Strip Tensile and Bend Test as per ASTM-A53

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	MS Pipe	16	28.10x6.10	171.41	6100	8800	349.11	503.63	0.60	30.00	
2	MS Pipe	16	28.05x6.10	171.11	6200	8900	355.47	510.27	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test											
Bend Test											
Strip Taken from MS Pipe (16") 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
 Orbit Housing
 Spring Apartment, Canal Road, Lahore

Reference # CED/TFL **33066** (Dr. Asif Hameed)
 Reference of the request letter # Nil

Dated: 15-04-2019
 Dated: 15-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
 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	0.357	3	0.365	0.11	0.105	4100	5200	82200	86210	104200	109400	0.70	8.8	
2	0.377	3	0.375	0.11	0.111	4100	5150	82200	81640	103200	102600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue Project, 17-A, Cooper Road, Lahore
 (SJ Steel)

Reference # CED/TFL **33067** (Dr. Asif Hameed)
 Reference of the request letter # CONC-20190415

Dated: 15-04-2019
 Dated: 15-04-2019

Tension Test Report (Page -1/1)

Date of Test 15-04-2019
 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	0.363	3	0.369	0.11	0.107	4300	5300	86200	88790	106200	109500	0.90	11.3	
2	0.368	3	0.371	0.11	0.108	4200	5100	84200	85580	102200	104000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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Pakistan. Ph: 92-42-99029202

To,
Manager Quality Control
Ravi Green Engineering (Pvt) Ltd
Construction of Flag Poles at DHA Bahawalpur 20 meter & 45meter
(CTE (Pvt) Ltd)(P-643)
Reference # CED/TFL **33071** (Dr. Safeer Abbas)
Reference of the request letter # RG/MT/UET/2627

Dated: 15-04-2019
Dated: 15-04-2019

Tension Test Report (Page – 1/1)

Date of Test 15-04-2019
Gauge length 8 inches
Description Carbon Steel Plate Steel Strip Tensile Test as per ASTM A36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	P643-T12-1	12	39.70x12.00	476.40	13200	21600	271.81	444.79	1.70	21.25	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test											
Bend Test											

I/C Testing Laboratories
UET Lahore, Pakistan.

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