



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-I
 NESPAK
 Widening of Aik Moria Pull, Lahore

Reference # CED/TFL 33217, 380 (Dr. Qasim Khan)
 Reference of the request letter # 3772/AMP/103/MWA/04/18

Dated: 13-05-2019
 Dated: 30-04-2019

Tension Test Report (Page – 1/6)

Date of Test 14-06-2019

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	Angle	6x6x3/4	29.60x19.30	571.28	17300	27000	297.07	463.64	0.85	42.50
2		6x6x3/4	29.80x19.30	575.14	16300	26800	278.02	457.12	0.85	42.50
3	Angle	5x5x1/2	29.70x12.20	362.34	11500	19300	311.35	522.53	0.80	40.00
4		5x5x1/2	29.40x12.20	358.68	12200	19000	333.67	519.66	0.80	40.00
5	Angle	4x4x3/8	28.30x9.50	268.85	9800	16500	357.59	602.06	0.70	35.00
6		4x4x3/8	28.20x9.30	262.26	9600	15800	359.09	591.01	0.70	35.00
7	Angle	4x4x1/2	28.50x12.70	361.95	14000	20500	379.44	555.62	0.70	35.00
8		4x4x1/2	29.40x12.50	367.50	13700	19800	365.71	528.54	0.65	32.50
9	Angle	3x3x3/8	28.00x9.50	266.00	9300	14500	342.98	534.76	0.75	37.50
10		3x3x3/8	28.10x10.20	286.62	10200	15300	349.11	523.67	0.70	35.00
11	Angle	2-1/2x2-1/2x1/4	25.40x8.00	203.20	6700	10200	323.46	492.43	0.70	35.00
12		2-1/2x2-1/2x1/4	25.00x7.90	197.50	6600	9600	327.83	476.84	0.65	32.50
Only Twelve Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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 Reference of the request letter # 3772/AMP/103/MWA/04/18

Dated: 13-05-2019
 Dated: 30-04-2019

Tension Test Report (Page – 2/6)

Date of Test 14-06-2019
 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
	(inch)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Angle	3- ¹ / ₂ x3- ¹ / ₂ x3/8	27.50x9.80	269.50	8900	13900	323.97	505.97	0.80	40.00	
2		3- ¹ / ₂ x3- ¹ / ₂ x3/8	28.20x9.60	270.72	9000	14100	326.13	510.94	0.65	32.50	
3	Cross Girder	18x7	29.40x15.00	441.00	14500	23300	322.55	518.31	0.75	37.50	
4		18x7	29.20x15.00	438.00	13800	22100	309.08	494.98	0.75	37.50	
5	Rail Girder	12x6	29.10x9.50	276.45	9900	16300	351.31	578.42	0.70	35.00	
6		12x6	29.20x9.30	271.56	9600	15800	346.80	570.77	0.70	35.00	
7	Channel	6x3	29.40x7.50	220.50	8300	12500	369.27	556.12	0.70	35.00	
8		6x3	29.30x7.60	222.68	8400	12700	370.06	559.49	0.70	35.00	
9	Strip	150x38x16mm	29.40x15.75	463.05	13000	19600	275.41	415.24	1.00	50.00	
10		150x38x16mm	29.40x15.75	463.05	13100	19700	277.53	417.36	1.10	55.00	
Only Ten Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
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 Reference of the request letter # 3772/AMP/103/MWA/04/18

Dated: 13-05-2019
 Dated: 30-04-2019

Tension Test Report (Page – 3/6)

Date of Test 14-06-2019
 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
	-----		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Plate	3/8"	29.50x10.00	295.00	9800	14500	325.89	482.19	0.70	35.00	
2		3/8"	29.70x10.00	297.00	10000	14800	330.30	488.85	0.70	35.00	
3	Plate	1/2"	29.70x12.00	356.40	11300	16000	311.04	440.40	0.80	40.00	
4		1/2"	29.70x12.00	356.40	11400	16000	313.79	440.40	1.00	50.00	
5	Plate	3/4"	28.50x19.50	555.75	17000	24500	300.08	432.47	1.00	50.00	
6		3/4"	28.40x19.40	550.96	16500	24300	293.79	432.67	1.10	55.00	
7	Bed Plate	25mm	29.80x25.00	745.00	22100	34300	291.01	451.66	1.10	55.00	
8		25mm	29.80x25.00	745.00	22000	34400	289.69	452.97	1.20	60.00	
9	Plate	3mm	29.50x3.20	94.40	2800	3900	290.97	405.29	0.80	40.00	
10		3mm	29.60x3.20	94.72	2700	4100	279.63	424.63	0.80	40.00	
Only Ten Samples for Tensile Test											
Bend Test											

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Reference # CED/TFL 33217, 380 (Dr. Qasim Khan)
Reference of the request letter # 3772/AMP/103/MWA/04/18

Dated: 13-05-2019
Dated: 30-04-2019

Weight & Size Test Report (Page – 4/6)

Date of Test 14-06-2019
Gauge length -----
Description Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	6x6x3/4	4440	101.20	43.87	154.40	155.00	19.20	
2	5x5x1/2	2583	103.00	25.08	127.8	127.20	12.20	
3	4x4x3/8	1431	92.40	15.49	103.80	103.70	9.50	
4	4x4x1/2	1841	92.80	19.84	105.00	103.00	12.40	
5	3x3x3/8	1085	92.00	11.79	81.00	78.40	9.75	
6	2-1/2x2-1/2x1/4	707	94.80	7.46	65.50	65.40	7.80	
7	3-1/2x3-1/2x3/8	1328	92.00	14.43	88.80	88.70	9.50	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Seven Samples for Test								

I/C Testing Laboratories
UET Lahore, Pakistan.

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Reference # CED/TFL 33217, 380 (Dr. Qasim Khan)
Reference of the request letter # 3772/AMP/103/MWA/04/18

Dated: 13-05-2019
Dated: 30-04-2019

Weight & Size Test Report (Page – 5/6)

Date of Test 14-06-2019
Gauge length -----
Description Girder & 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
	(inch)		(g)	(mm)	(kg/m)	mm	mm	mm	mm	
1	Cross Girder	18x7	11615	97.00	119.74	462.00	179.50	27.80	14.70	
2	Rail Girder	12x6	4858	85.20	57.02	305.20	154.20	14.75	9.80	
3	Channel	6x3	1925	94.50	20.37	150.00	77.20	9.90	7.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Three Samples for Test										

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UET Lahore, Pakistan.

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To,
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Widening of Aik Moria Pull, Lahore

Reference # CED/TFL 33217, 380 (Dr. Qasim Khan)
Reference of the request letter # 3772/AMP/103/MWA/04/18

Dated: 13-05-2019
Dated: 30-04-2019

Weight & Size Test Report (Page – 6/6)

Date of Test 14-06-2019
Gauge length -----
Description Plate Weight and Size Test

Sr. No.	Designation		Weight	Length	Width	Weight per Unit Length	Thickness	Remark
1	Strip	150x38x16mm	1146	95.74	95.60	125.21	15.90	
2	Plate	3/8	717	95.60	95.60	78.45	10.10	
3	Plate	1/2	876	94.00	93.80	99.35	12.00	
4	Plate	3/4	1435	95.70	95.60	156.85	19.20	
5	Bed Plate	25mm	1795	95.40	95.60	196.81	25.00	
6	Plate	3mm	218	95.60	95.40	23.90	3.00	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Six Samples for Test								

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To,
 Assistant Executive Engineer
 Pakistan Railways, Lahore
 (Work of Special Repair of Public Foot over Bridge (Across the Yard) No. 13, 14, 15 & 16 on
 PSCEnd at Lahore Railway Station)

Reference # CED/TFL **33310** (Dr. Qasim Khan)
 Reference of the request letter # 634-W/PCS END

Dated: 28-05-2019
 Dated: 25-05-2019

Tension Test Report (Page – 1/1)

Date of Test 14-06-2019
 Gauge length 2 inches
 Description Steel Angle Iron 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
	(inch)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	3 ¹ / ₂ x3 ¹ / ₂ x3/8	26.10x9.60	250.56	9500	13900	371.95	544.22	0.60	30.00	
2	3 ¹ / ₂ x3 ¹ / ₂ x3/8	26.30x9.60	252.48	8900	13400	345.81	520.65	0.70	35.00	
3	4x4x1/2	26.10x12.00	313.20	11800	17300	369.60	541.87	0.70	35.00	
4	4x4x1/2	26.15x12.20	319.03	11500	17400	353.62	535.04	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from Steel Angle (3 ¹ / ₂ "x3 ¹ / ₂ "x3/8") Bend Test Through 180° is Satisfactory										
Strip Taken from Steel Angle (4"x4"x1/2") Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
EA Consulting (Pvt) Ltd
Sukkur – Multan Motorway Project
Section – III (CSCEC)(IIL Lahore)

Reference # CED/TFL **33318** (Dr. Qasim Khan)
Reference of the request letter # CRE/EA/M.P-III/414-2019

Dated: 29-05-2019
Dated: 28-05-2019

Tension Test Report (Page – 1/2)

Date of Test 14-06-2019
Gauge length 2 inches
Description GI Pipe 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
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	100	29.00x4.50	130.50	3400	4400	255.59	330.76	0.70	35.00	
2	100	29.00x4.50	130.50	3300	4200	248.07	315.72	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test										
Bend Test										
Strip Taken from GI Pipe (100mm) 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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Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
EA Consulting (Pvt) Ltd
Sukkur – Multan Motorway Project
Section – III (CSCEC)(IIL Lahore)

Reference # CED/TFL **33318** (Dr. Qasim Khan)
Reference of the request letter # CRE/EA/M.P-III/414-2019

Dated: 29-05-2019
Dated: 28-05-2019

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

Date of Test 14-06-2019
Description GI Pipe Seamless Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	100mm	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Only One Sample for Test			

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S SEM Engineers
Lahore

Reference # CED/TFL **33326** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 30-05-2019
Dated: 29-05-2019

Tension Test Report (Page – 1/3)

Date of Test 14-06-2019
Gauge length 2 inches
Description M.S 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	29.00x2.55	73.95	2200	2700	291.85	358.17	0.70	35.00	
2	2	29.00x2.50	72.50	2300	2800	311.21	378.87	0.55	27.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S SEM Engineers
Lahore

Reference # CED/TFL **33326** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 30-05-2019

Dated: 29-05-2019

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

Date of Test 14-06-2019

Description M.S Pipe Seamless Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	2"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Only One Sample for Test			

I/C Testing Laboratories
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Ref: CED/TFL/05/33333

Dated: 30-05-19

To

Chief Resident Engineer
NESPAK
Lahore Orange Line Metro Project Package - 1

Subject: - TEST RESULT REPORT FOR PANEL WITH ANTI STATIC RAISED FLOOR SYSTEM

Reference to your letter no. 3765/13/FAM/C&C/Raised-Floor-2250, dated: 21/05/2019 on the above mentioned subject. One Panel with Anti Static Raised floor system with concentrated load by 80mm Indentor/Pressure stamp has been tested and results are given below:

Sr. No.	Applied Load	Deflection at 400 kg load	Remarks
1	400 kg	1.60mm	No crack is observed at applied load of 400 kg

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To,
M/S Five Star Corporation
Bahawalpur
(Construction of Noor Care Hospital Rajanpur)

Reference # CED/TFL **33164** (Dr. Asif Hameed)
Reference of the request letter # 636/UET/LHR

Dated: 13-06-2019
Dated: 11-06-2019

Tension Test Report (Page -1/1)

Date of Test 14-06-2019
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	0.418	3/8	0.395	0.11	0.123	4800	5900	96200	86180	118300	106000	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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- 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,
 Assistant Engineer (C)
 University of Sargodha
 Construction of 12 Nos. Residences (01 Block) for BPS (1-10) at Main Campus University of Sargodha

Reference # CED/TFL **33365** (Dr. Asif Hameed)
 Reference of the request letter # SU/P.D(W)/16031

Dated: 13-06-2019
 Dated: 10-06-2019

Tension Test Report (Page -1/1)

Date of Test 14-06-2019
 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	0.379	3/8	0.377	0.11	0.111	2900	4600	58200	57360	92200	91000	1.10	13.8	
2	0.385	3/8	0.379	0.11	0.113	3000	4800	60200	58490	96200	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:

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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,
 Sub Divisional Officer
 Buildings Sub Division No. 15
 Lahore
 (Construction of A new Administration Block in The Premises of Lahore High Court Lahore)

Reference # CED/TFL **33366** (Dr. Asisf Hameed)
 Reference of the request letter # 2280/H

Dated: 13-06-2019
 Dated: 29-05-2019

Tension Test Report (Page -1/1)

Date of Test 14-06-2019
 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	0.417	3/8	0.395	0.11	0.122	4300	5800	86200	77410	116300	104500	0.80	10.0	
2	0.418	3/8	0.395	0.11	0.123	4400	5800	88200	78970	116300	104100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

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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 IVY Green Sector-Z DHA Ph-VIII)(M/s MCC Ruba)

Reference # CED/TFL **33182** (Dr. M Rizwan Riaz)
Reference of the request letter # 408/241/E/Lab/595/326

Dated: 13-06-2019
Dated: 28-05-2019

Tension Test Report (Page -1/1)

Date of Test 14-06-2019
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	0.376	3	0.375	0.11	0.111	3200	5200	64200	63770	104200	103700	0.80	10.0	City Steel
2	0.368	3	0.371	0.11	0.108	3100	5200	62200	63140	104200	106000	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.

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,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works (Pkg-II, III & IV), DHA PH-IX)Prism)(M/s NLC)

Reference # CED/TFL **33374** (Dr. Asif Hameed)
Reference of the request letter # 408/241/E/Lab/605/15913

Dated: 13-06-2019
Dated: 12-06-2019

Tension Test Report (Page -1/1)

Date of Test 14-06-2019
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)		Remarks
		Nominal (in)	Actual (mm)	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.265	1/4	6.56	32.26	33.79	1300	1700	395	377	517	493	
2	0.262	1/4	6.52	32.26	33.38	1300	1750	395	382	532	514	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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