



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, Lahore
 Upgradation of Radiology/Special Ties Department at Service Hospital, Lahore

Reference # CED/TFL **33696, 828** (Dr. Waseem Abbas)
 Reference of the request letter # 3772/MB/MSW/019/004

Dated: 06-08-2019
 Dated: 12-07-2019

Tension Test Report (Page – 1/6)

Date of Test 20-09-2019
 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)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Angle Iron	75x75x6	30.30x5.80	175.74	6400	9600	357.26	535.88	0.50	25.00	
2		75x75x6	30.30x5.80	175.74	6600	9800	368.42	547.05	0.70	35.00	
3	M.S Pipe	75	30.30x1.90	57.57	1200	2400	204.48	408.96	0.60	30.00	
4		75	30.40x2.00	60.80	1200	2500	193.62	403.37	0.55	27.50	
5	M.S Pipe	50	30.20x1.80	54.36	1200	2500	216.56	451.16	0.70	35.00	
6		50	30.40x1.80	54.72	1200	2600	215.13	466.12	0.70	35.00	
7	M.S Plate	35	29.40x34.80	1023.12	42400	56200	406.54	538.86	1.20	60.00	
8		35	29.40x34.90	1026.06	41200	56600	393.91	541.14	1.00	50.00	
Only Eight Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Resident Engineer
 NESPAK, Lahore
 Upgradation of Radiology/Special Ties Department at Service Hospital, Lahore

Reference # CED/TFL **33696, 828** (Dr. Waseem Abbas)
 Reference of the request letter # 3772/MB/MSW/019/004

Dated: 06-08-2019
 Dated: 12-07-2019

Tension Test Report (Page – 2/6)

Date of Test 20-09-2019
 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)
1	Chanel	250x88x9x12	30.40x9.30	282.72	9800	15700	340.05	544.77	0.75	37.50	
2		250x88x9x12	30.70x9.00	276.30	9900	15900	351.50	564.53	0.60	30.00	
3	H-Beam	200x200x12x13	30.40x12.60	383.04	12500	20200	320.14	517.34	0.75	37.50	
4		200x200x12x13	30.20x11.50	347.30	12200	19500	344.61	550.81	0.80	40.00	
5	Chequer Sheet	5	30.30x4.70	142.41	4500	6900	309.99	475.31	0.75	37.50	
6		5	30.50x4.70	143.35	4700	7000	321.64	479.04	0.75	37.50	
-	-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
Only Six Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
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Upgradation of Radiology/Special Ties Department at Service Hospital, Lahore

Reference # CED/TFL **33696, 828** (Dr. Waseem Abbas)
Reference of the request letter # 3772/MB/MSW/019/004

Dated: 06-08-2019
Dated: 12-07-2019

Weight & Size Test Report (Page – 3/6)

Date of Test 20-09-2019
Gauge length -----
Description Angle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(mm)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	75x75x6	5000	77.90	6.42	74.80	74.60	6.00	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

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To,
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NESPAK, Lahore
Upgradation of Radiology/Special Ties Department at Service Hospital, Lahore

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Reference of the request letter # 3772/MB/MSW/019/004

Dated: 06-08-2019
Dated: 12-07-2019

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

Date of Test 20-09-2019
Gauge length -----
Description M.S Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Thickness	Remark
	(mm)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	75	1200	35.90	3.34	73.50	69.50	2.00	
2	50	2700	102.40	2.64	59.00	55.60	1.70	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

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To,
Resident Engineer
NESPAK, Lahore
Upgradation of Radiology/Special Ties Department at Service Hospital, Lahore

Reference # CED/TFL **33696, 828** (Dr. Waseem Abbas)
Reference of the request letter # 3772/MB/MSW/019/004

Dated: 06-08-2019
Dated: 12-07-2019

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

Date of Test 20-09-2019
Gauge length -----
Description Plate Weight and Size Test

Sr. No.	Designation		Weight	Length	Width	Weight per Unit Length	Thickness	Remark
	(mm)							
1	M.S Plate	35	38400	46.00	30.80	271.03	34.90	
2	Chequer Sheet	5	5400	58.00	44.50	20.92	4.90	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

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Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
NESPAK, Lahore
Upgradation of Radiology/Special Ties Department at Service Hospital, Lahore

Reference # CED/TFL **33696, 828** (Dr. Waseem Abbas)
Reference of the request letter # 3772/MB/MSW/019/004

Dated: 06-08-2019
Dated: 12-07-2019

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

Date of Test 20-09-2019
Gauge length -----
Description Channel & H-Beam 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)									
1	Chanel	250x88x9x12	20900	60.70	34.43	251.00	89.00	13.80	9.70	
2	H-Beam	200x200x12x13	33200	61.70	53.81	200.20	200.30	12.40	10.80	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,
 Resident Engineer (Infrastructure)
 NESPAK
 Development of Kartarpur Corridor

Reference # CED/TFL **33819** (Dr. Asi Ahmed)
 Reference of the request letter # SA-394/DKC/C. Test/SM/111

Dated: 13-09-2019
 Dated: 12-09-2019

Tension Test Report (Page – 1/1)

Date of Test 20-09-2019
 Gauge length 2 inches
 Description Aluminum Alloy Expansion Joint Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Aluminum Alloy Expansion Joint	39.90x3.90	155.61	43.42	50.00	279.03	321.32	0.30	15.00	
2		39.90x3.90	155.61	44.82	50.00	288.03	321.32	0.30	15.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,
 Director
 Multiline Engineers
 Construction of Misc Civil Works at Unilever Pakistan Foods Ltd

Reference # CED/TFL **33861** (Dr. Waseem Abbas)
 Reference of the request letter # Nil

Dated: 19-09-2019
 Dated: 19-09-2019

Tension Test Report (Page -1/1)

Date of Test 20-09-2019

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.367	3	0.370	0.11	0.108	3100	4300	62200	63420	86200	88000	1.60	20.0	
2	0.358	3	0.366	0.11	0.105	2800	4200	56200	58640	84200	88000	1.50	18.8	
3	0.362	3	0.368	0.11	0.106	2900	4300	58200	60060	86200	89100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Project Engineer
 Stallion Constructions Pvt. Ltd
 Construction of Chasni Ware house at Gajjumuta Lahore

Reference # CED/TFL **33862** (Dr. Waseem Abbas)
 Reference of the request letter # SCPL/PROJECT/CHASNI/100

Dated: 19-09-2019
 Dated: 18-09-2019

Tension Test Report (Page -1/1)

Date of Test 20-09-2019

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	0.371	3	0.372	0.11	0.109	3400	4700	68200	68770	94200	95100	1.20	15.0	
2	0.371	3	0.373	0.11	0.109	3300	4700	66200	66610	94200	94900	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan
 (Heat No. P-918 - Kamran Steel)

Reference # CED/TFL **33863** (Dr. Waseem Abbas)

Dated: 19-09-2019

Reference of the request letter # DB-78/DAR/RE/ME/2019/0204

Dated: 18-09-2019

Tension Test Report (Page -1/1)

Date of Test 20-09-2019

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	0.363	3	0.369	0.11	0.107	3300	4800	66200	68170	96200	99200	1.40	17.5	
2	0.362	3	0.368	0.11	0.106	3200	4800	64200	66310	96200	99500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
 Sub Divisional Officer
 GC University, Faisalabad
 (Construction of External Development (Sewerage Sump External Sewerage & Power Cable etc)
 of Academic Block # 5 at New Campus Government College University Faisalabad)

Reference # CED/TFL **33864** (Dr. Waseem Abbas)
 Reference of the request letter # GCUF/EC/1264

Dated: 19-09-2019
 Dated: 20-08-2019

Tension Test Report (Page -1/1)

Date of Test 20-09-2019

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	0.374	3/8	0.374	0.11	0.110	3900	4900	78200	78190	98200	98300	0.90	11.3	
2	0.389	3/8	0.381	0.11	0.114	3900	4900	78200	75280	98200	94600	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
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To,
 M/S Al-Badar Engineering Company (Pvt) Ltd
 Wazirabad

Reference # CED/TFL **33865** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 20-09-2019

Dated: 20-09-2019

Tension Test Report (Page -1/1)

Date of Test 20-09-2019

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.369	3	0.372	0.11	0.109	3700	4900	74200	75130	98200	99500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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