



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 Reliance Pre-Fabricated Steel Structures (Pvt) Ltd.
Lahore

Reference # CED/TFL **35939** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 15-01-2021

Dated: 14-01-2021

Tension Test Report (Page – 1/1)

Date of Test 21-01-2021

Gauge length 2 inches

Description MS Circular 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
	(inch)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	16	28.00x8.00	224.00	7600	11200	332.84	490.50	0.70	35.00	
2		28.00x8.00	224.00	7500	11300	328.46	494.88	0.70	35.00	
3	18	28.10x8.00	224.80	8300	11300	362.20	493.12	0.70	35.00	
4		28.10x8.00	224.80	8500	11300	370.93	493.12	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from MS Circular Pipe (16") Bend Test Through 180° is Satisfactory										
Strip Taken from MS Circular Pipe (18") Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
M/S AA & Associates
Lahore
(MCB Bank, Lalliani Branch, Kot Momin)
Reference # CED/TFL **35954** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 18-01-2021
Dated: 18-01-2021

Tension Test Report (Page -1/1)

Date of Test 21-01-2021
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	0.393	3/8	0.384	0.11	0.116	4300	5400	86200	81990	108200	103000	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.

Note:

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To,
M/S New Mujahid ALCON Indus. Pvt Ltd.
Lahore
(The Qube Lahore)

Reference # CED/TFL **35956** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 19-01-2021
Dated: 19-01-2021

Tension Test Report (Page -1/1)

Date of Test 21-01-2021
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	0.358	3	0.366	0.11	0.105	2900	4500	58200	60760	90200	94300	0.90	11.3	
2	0.378	3	0.376	0.11	0.111	2700	4000	54100	53580	80200	79400	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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To,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **35958** (Dr. Usman Akmal)
Reference of the request letter # IHPL/Steel/044

Dated: 19-01-2021
Dated: 18-01-2021

Tension Test Report (Page -1/1)

Date of Test 21-01-2021
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	0.377	3	0.375	0.11	0.111	3100	4900	62200	61740	98200	97600	1.20	15.0	PCS
2	0.375	3	0.375	0.11	0.110	3100	4900	62200	61980	98200	98000	1.20	15.0	
3	0.377	3	0.376	0.11	0.111	3200	5000	64200	63600	100200	99400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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.

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To,
M/S Ali Zaman (Pvt) Ltd
Lahore

Reference # CED/TFL **35959** (Dr. Usman Akmal)
Reference of the request letter # azl-472-2021

Dated: 19-01-2021

Dated: 19-01-2021

Tension Test Report (Page – 1/1)

Date of Test 21-01-2021
Gauge length 2 inches
Description MS Sheet Steel Strip Tensile 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	1.5	40.60x1.50	60.90	1120	1760	180.41	283.51	0.30	15.00	
2		40.60x1.50	60.90	1080	1880	173.97	302.84	0.40	20.00	
-	.	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	
-	.	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

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Department of Civil Engineering
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To,
M/S Transtech Engineering Company
NESPAK-CMEC
PTPL
Construction of 1263 MW Punjab Thermal Power Plant, Jhang (Ittehad Steel)

Reference # CED/TFL **35960** (Dr. Usman Akmal)
Reference of the request letter # TEC/UET/21011901

Dated: 19-01-2021
Dated: 19-01-2021

Tension Test Report (Page -1/2)

Date of Test 21-01-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remark
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.247	32	32.02	1.25	1.248	34600	55000	61023	61100	97002	97200	1.30	16.3	
2	4.252	32	32.04	1.25	1.250	34800	55200	61376	61380	97355	97400	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 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,
M/S Transtech Engineering Company
NESPAK-CMEC
PTPL
Construction of 1263 MW Punjab Thermal Power Plant, Jhang (Ittefaq Steel)

Reference # CED/TFL **35960** (Dr. Usman Akmal)
Reference of the request letter # TEC/UET/201200602

Dated: 19-01-2021
Dated: 19-01-2021

Tension Test Report (Page -2/2)

Date of Test 21-01-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.407	10	9.91	0.12	0.120	3700	5600	67975	68190	102881	103200	1.20	15.0	3246
2	0.406	10	9.90	0.12	0.119	3700	5600	67975	68300	102881	103400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia 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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Pakistan. Ph: 92-42-99029202

To,
M/S M. Ahmad Associates
Faisalabad

Reference # CED/TFL **35961** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 20-01-2021
Dated: 20-01-2021

Tension Test Report (Page -1/1)

Date of Test 21-01-2021
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	4000	5500	80200	71800	110200	98800	1.20	15.0	
2	0.414	3/8	0.394	0.11	0.122	3900	5500	78200	70590	110200	99600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Resident Engineer
 NESPAK
 Establishment of U.E.T Lahore Sub Campus at Narowal – Construction of Boys Hostel (Balance Works)
 Reference # CED/TFL **35962** (Dr. Usman Akmal) Dated: 20-01-2021
 Reference of the request letter # 3863/13/SYA/Labtsting/249 Dated: 20-01-2021

Tension Test Report (Page -1/1)

Date of Test 21-01-2021
 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	0.350	3	0.362	0.11	0.103	3400	4500	68200	72890	90200	96500	0.90	11.3	SJ Steel
2	0.349	3	0.361	0.11	0.103	3500	4600	70200	75250	92200	98900	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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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
 Tameer Art SMC Pvt. Ltd
 Construction of Schools in Sargodha II Division
 (The Citizen's Foundation)

Reference # CED/TFL **35965** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 21-01-2021
 Dated: 21-01-2021

Tension Test Report (Page -1/1)

Date of Test 21-01-2021
 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	0.378	3	0.376	0.11	0.111	3000	4400	60200	59560	88200	87400	1.50	18.8	
.	
.	
.	
.	
.	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 Orbit Housing
 The Springs, Apartment Lahore

Reference # CED/TFL **35966** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 21-01-2021
 Dated: 21-01-2021

Tension Test Report (Page -1/1)

Date of Test 21-01-2021
 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	0.386	3	0.380	0.11	0.113	2800	4400	56200	54450	88200	85600	1.40	17.5	
2	0.385	3	0.380	0.11	0.113	2900	4400	58200	56460	88200	85700	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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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **35967** (Dr. Ali Ahmed)
 Reference of the request letter # ST/UET/20210121

Dated: 21-01-2021
 Dated: 21-01-2021

Tension Test Report (Page -1/1)

Date of Test 21-01-2021
 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	3100	4800	62200	63170	96200	97800	1.00	12.5	Bataka Premium
2	0.373	3	0.373	0.11	0.110	3200	4900	64200	64410	98200	98700	0.90	11.3	
3	0.371	3	0.373	0.11	0.109	3200	4900	64200	64680	98200	99100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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