



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 Ring Road Southern Loop (SL-3) Project.

Reference # CED/TFL **4509** (Dr. M Kashif)

Dated: 16-01-2024

Reference of the request letter # Nespak/LRRA/MNA/Sl-3/111

Dated: 16-01-2024

Tension Test Report (Page – 1/1)

Date of Test 23-01-2024

Gauge length 2 inches

Description Steel Structure 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)										
1	Angle Iron	100x100x10	19.50x10.50	204.75	7600	10900	364	522	0.70	35.00	
2	Angle Iron	65x65x8	27.80x7.90	219.62	8200	12800	366	572	0.60	30.00	
3	Gusset Plate	10	19.60x9.80	192.08	6800	10500	347	536	0.80	40.00	
4	Base Plate	50	22.50x50.00	1125.00	40000	56400	349	492	1.60	80.00	
5	Base Plate	36	22.30x35.70	796.11	21200	33000	261	407	1.50	75.00	
6	Rib Plate	18	27.90x17.50	488.25	28000	31300	563	629	0.80	40.00	
7	MS Square Pipe	1.5"x1.5"	19.50x1.50	29.25	1260	1960	423	657	0.70	35.00	
8	Gantry Pipe	219	27.75x7.80	216.45	7000	10900	317	494	0.60	30.00	
9	Cantilever Pipe	457	22.90x12.80	293.12	13500	17800	452	596	0.80	40.00	
Only Nine Samples for Tensile Test											
Bend Test											

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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To,
 Project Director
 Overseas Construction Co. (Pvt) Ltd
 Gulberg City Centre, Lahore

Reference # CED/TFL **4525** (Dr. M Kashif)
 Reference of the request letter # OCC/Steel/53

Dated: 22-01-2024
 Dated: 22-01-2024

Tension Test Report (Page -1/1)

Date of Test 23-01-2024
 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	0.375	3	0.374	0.11	0.110	4000	5500	80200	80060	110200	110100	0.90	11.3	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Project Manager
M/S High-Q Constructions
Construction of High-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL **4529** (Dr. M Kashif)
Reference of the request letter # QC/HQ/CIVIL/177

Dated: 22-01-2024
Dated: 22-01-2024

Tension Test Report (Page -1/1)

Date of Test 23-01-2024
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	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.411	10	9.96	0.12	0.121	3700	5300	67975	67560	97370	96800	1.50	18.8	
2	0.414	10	10.00	0.12	0.122	3700	5300	67975	67020	97370	96000	1.50	18.8	
3	4.255	32	32.05	1.25	1.251	40800	57600	71958	71910	101588	101600	1.60	20.0	
4	4.287	32	32.17	1.25	1.260	41200	58200	72664	72070	102646	101800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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Ref: CED/TFL/01/4531

Dated: 22-01-2024

Dated of Test: 23-01-2024

To

Project Manager / RE
EDCS Project, Pakpattan
Osmani & Company (Pvt) Ltd.
Engineering, Design & Construction Supervision for Punjab Rural Sustainable.

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. PM/OCL/PRSWSSP/EDCS/2023/108, dated 16.12.2023 on the subject cited above. Seven R.C.C. Pipes as received by us have been tested. The results are tabulated as under

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.79	7.34	16.10	12.07	2.02	10200	13500	3045	4030
2	12	7.78	7.35	16.06	12.00	2.03	11300	13700	3390	4110
3	12	7.79	7.35	16.10	12.05	2.03	10600	14000	3169	4185
4	12	7.78	7.36	16.14	12.11	2.02	11000	14200	3267	4217
5	12	7.79	7.38	16.06	12.05	2.01	11500	13800	3421	4105
6	12	7.78	7.37	16.10	12.07	2.02	10800	13900	3214	4136
7	12	7.79	7.38	16.10	12.02	2.04	10300	14000	3073	4177

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To,

Resident Engineer
IDAP
Infrastructure Development Authority of Punjab
Design, Procurement, Deployment and Commissioning of CCTV, Control Room and
Data Centre (Computer & Core Network) Infrastructure on EPC/Turnkey Basis for
Punjab Police Integrated Command, Control and Communication (PPIC3) Gujranwala.

Reference # CED/TFL **4532** (Dr. M Kashif)

Dated: 22-01-2024

Reference of the request letter # PPIC3-GUJ/IDAP/2024/0001

Dated: 15-01-2024

Tension Test Report (Page -1/1)

Date of Test 23-01-2024

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	0.374	3	0.374	0.11	0.110	3300	4800	66200	66240	96200	96400	1.40	17.5	Moiz Steel
2	0.374	3	0.374	0.11	0.110	3200	4800	64200	64190	96200	96300	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
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To,
Manager QA/QC
New Metro City Housing Scheme
Mandi Bahaudin

Reference # CED/TFL **4538** (Dr. Asad Ali)
Reference of the request letter # NMC/MBD/LAB/63

Dated: 23-01-2024
Dated: 23-01-2024

Tension Test Report (Page -1/1)

Date of Test 23-01-2024
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	0.365	3	0.370	0.11	0.107	3590	4810	72000	73740	96400	98800	1.40	17.5	
2	0.366	3	0.370	0.11	0.108	3590	4810	72000	73510	96400	98500	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														

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