



**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 **4015** (Dr. Rizwan Azam)  
Reference of the request letter # Nespak/LRRA/MNA/SL-3/035

Dated: 05-10-2023  
Dated: 28-09-2023

**Tension Test Report** (Page – 1/1)

Date of Test 12-10-2023  
Gauge length 2 inches  
Description Steel Plate & Trumpet Cone 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 <sup>2</sup> )	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Trumpet Cone	24.50x28.80	705.60	-----	298.50	-----	423.04	1.20	60.00	Rd +63+342
2	Trumpet Cone	24.50x31.60	774.20	-----	290.20	-----	374.84	1.10	55.00	Rd +63+760
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

**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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To,  
Project Manager  
Imperium Developers  
Construction of Sixty6 at Gulberg-III, Lahore

Reference # CED/TFL **4040** (Dr. M Kashif)  
Reference of the request letter # IMP/66/10/91

Dated: 10-10-2023  
Dated: 10-10-2023

**Tension Test Report** (Page -1/1)

Date of Test 12-10-2023  
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 <sup>2</sup> )		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	0.360	3	0.367	0.11	0.106	3380	4180	67800	70450	83800	87200	0.90	11.3	
2	0.373	3	0.374	0.11	0.110	3620	4430	72600	72710	88800	89000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by M Husnain Imran (Site Engr. Imperium Developers)

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**UET Lahore, Pakistan.**

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To,  
 Project Engineer  
 Baig Construction Co  
 Construction of Jinnah Square Mall, Raiwind Road, Lahore.

Reference # CED/TFL **4042** (Dr. Rizwan Azam)  
 Reference of the request letter # ST/UET/10102023/3000

Dated: 11-10-2023  
 Dated: 10-10-2023

**Tension Test Report** (Page -1/1)

Date of Test 12-10-2023  
 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 <sup>2</sup> )		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	0.389	3	0.382	0.11	0.114	4330	5170	86800	83370	103600	99600	1.00	12.5	AF Steel
2	0.378	3	0.376	0.11	0.111	4180	5070	83800	82890	101600	100600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
 Material Engineer  
 Defence Housing Authority  
 Multan  
 Construction of Filtration Plant Sec-R (M/s Sun Tech)

Reference # CED/TFL **4043** (Dr. Rizwan Azam)  
 Reference of the request letter # 701/92/Lab/DHA

Dated: 11-10-2023  
 Dated: 06-10-2023

**Tension Test Report** (Page -1/1)

Date of Test 12-10-2023  
 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 <sup>2</sup> )		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	0.376	0.11	0.111	3310	4860	66400	65780	97400	96600	1.20	15.0	Sheikho Steel
2	0.376	3	0.375	0.11	0.111	3310	4810	66400	65940	96400	95900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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To,  
 Senior Manager Projects - Civil  
 Vision Packaging  
 Volka Food International Limited

Reference # CED/TFL **4045** (Dr. Rizwan Azam)  
 Reference of the request letter # VFI/Civil/23

Dated: 11-10-2023  
 Dated: 25-09-2023

**Tension Test Report** (Page -1/1)

Date of Test 12-10-2023  
 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 <sup>2</sup> )		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	0.382	3/8	0.378	0.11	0.112	4250	5070	85200	83400	101600	99500	0.90	11.3	
2	0.387	3/8	0.380	0.11	0.114	4080	4910	81800	79150	98400	95300	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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Ref: CED/TFL/10/4050

Dated: 11-10-2023

Dated of Test: 12-10-2023

To

**A. Resident Engineer**  
**NESPAK**

**Development of Internal Infrastructure of CBD Walton (Phase 2 & 3) & Flyover Connecting Bab-e-Pakistan to Walton.**

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

Reference to your letter No. 4500/13/AZL/02/12 dated 10-10-2023 on the subject cited above. One R.C.C. Pipe as received by us has 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	15	7.72	7.29	19.65	15.00	2.32	9500	14500	2299	3508

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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To,  
 M/S Prime Steel Re-Rolling Mills  
 Sheikhpura  
 (Prime Steel)

Reference # CED/TFL **4052** (Dr. Rizwan Azam)  
 Reference of the request letter # Nil

Dated: 11-10-2023  
 Dated: 11-10-2023

**Tension Test Report** (Page -1/1)

Date of Test 12-10-2023  
 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 <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remark
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.367	3	0.371	0.11	0.108	2850	4200	57200	58260	84200	85900	1.50	18.8	Prime Steel Sheikhpura
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,

Resident Engineer  
 NESPAK  
 Development of a Controlled Access Corridor Facility from Niazi Interchange to Babu Sabu Interchange, Lahore

Reference # CED/TFL **4053** (Dr. Rizwan Azam)

Dated: 11-10-2023

Reference of the request letter # S3772/103/NBI(P-I)/MWA/02/11 Dated: 07-10-2023

**Tension Test Report** (Page -1/1)

Date of Test 12-10-2023

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 <sup>2</sup> )		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	0.373	3	0.373	0.11	0.110	3130	4760	62800	62980	95400	95800	1.10	13.8	Bataala Premium
2	0.371	3	0.373	0.11	0.109	3160	4790	63400	63860	96000	96800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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Ref: CED/TFL/10/4055

Dated: 12-10-2023

Dated of Test: 12-10-2023

To

**M/S Four Star Naru Construction Company**  
**Gujranwala**

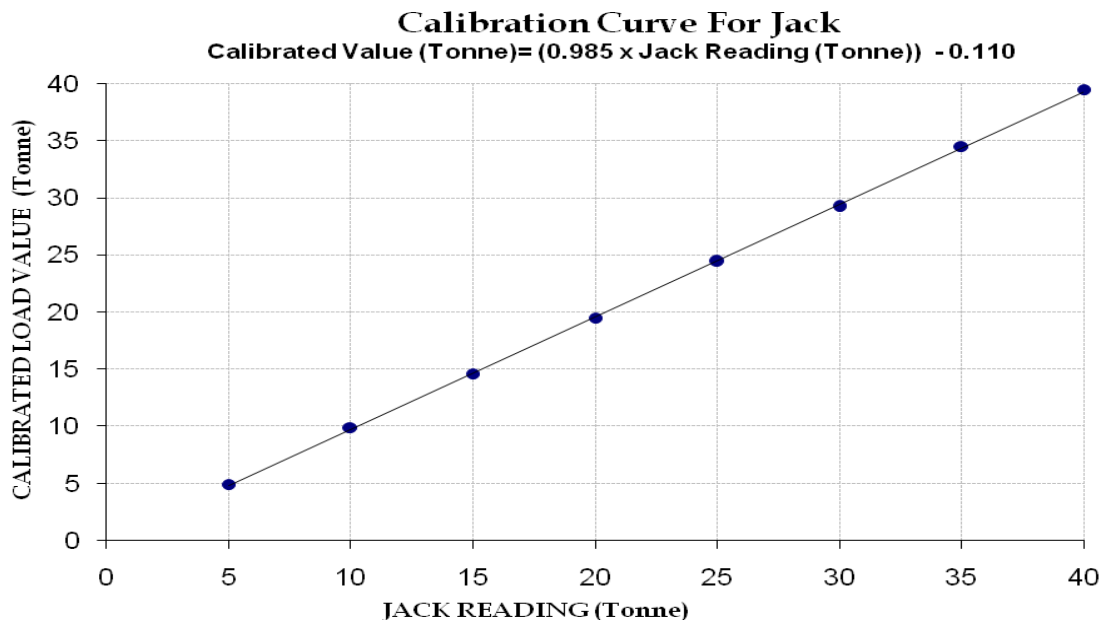
**Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE**  
**(MARK: TFL/10/4055)**

Reference to your Letter No. 34, Dated: 09/10/2023 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 50 (Tonne)**  
**Calibrated Range : Zero - 40 (Tonne)**

Hydraulic Jack Reading (Tonne)		5	10	15	20	25	30	35	40
Calibrated Load	(kg)	4900	9900	14600	19500	24400	29200	34500	39500
	(Tonne)	4.90	9.90	14.60	19.50	24.40	29.20	34.50	39.50

1000 kg = 1 Tonne



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