



**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  
 Bahria Town Private Limited  
 Gate House at Ali Villa Bahria Town Multan Road

Reference # CED/TFL 37106 (Dr. Ali Ahmed)  
 Reference of the request letter # QA/QC-Steel-2399

Dated: 27-09-2021  
 Dated: 27-09-2021

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

Date of Test 29-09-2021  
 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 <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	0.375	3	0.375	0.11	0.110	3700	4700	74200	74020	94200	94100	0.90	11.3	FF Steel
2	0.375	3	0.375	0.11	0.110	3600	4800	72200	72020	96200	96100	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														

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

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To,  
 GM Project  
 Azgard Nine Limited  
 SBU Blow Machine Hall Building Azagard9 Limited

Reference # CED/TFL **37108** (Dr. Ali Ahmed)  
 Reference of the request letter # Az/Pro/004

Dated: 27-09-2021  
 Dated: 24-09-2021

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

Date of Test 29-09-2021  
 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 <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	0.385	3	0.379	0.11	0.113	4400	5500	88200	85790	110200	107300	0.80	10.0	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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,  
 GM Project  
 Azgard Nine Limited  
 SBU Opne Enf Building Building Azagard9 Limited

Reference # CED/TFL 37109 (Dr. Ali Ahmed)  
 Reference of the request letter # Az/Pro/005

Dated: 27-09-2021  
 Dated: 24-09-2021

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

Date of Test 29-09-2021  
 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 <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	0.390	3	0.382	0.11	0.115	4500	5800	90200	86450	116300	111500	1.10	13.8	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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To,  
 Resident Engineer  
 Dar Engineering  
 Punjab Agriculture Food and Drug Authority's Science Enclave, Lahore

Reference # CED/TFL 37111 (Dr. Ali Ahmed)  
 Reference of the request letter # DB-78/DAR/RE/ME/2021/25

Dated: 27-09-2021  
 Dated: 27-09-2021

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

Date of Test 29-09-2021  
 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 <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	0.401	3	0.388	0.11	0.118	3600	5300	72200	67270	106200	99100	1.40	17.5	
2	0.417	3	0.395	0.11	0.123	3700	5300	74200	66520	106200	95300	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.**

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To,  
 Executive Engineer (B&W)  
 University of Veterinary & Animal Sciences, Lahore  
 Construction of Residences for (Grade 1-10), B Block at Ahata Quarters, City Campus, UVAS,  
 Lahore  
 Reference # CED/TFL 37112 (Dr. Ali Ahmed) Dated: 28-09-2021  
 Reference of the request letter # E.E 643 Dated: 29-04-2021

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

Date of Test 29-09-2021  
 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 <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	0.373	3/8	0.374	0.11	0.110	3300	4700	66200	66310	94200	94500	1.40	17.5	Model Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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**UET Lahore, Pakistan.**

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To,  
 Assistant Resident Engineer  
 JER – AiD Jv  
 Detailed Design and Supervision of The Project “Provision of Clean Drinking Water to the People of Punjab by Aab-e-Pak Authority (Phase-1) North Zone” Package - 10

Reference # CED/TFL **37114** (Dr. Ali Ahmed) Dated: 28-09-2021  
 Reference of the request letter # 465-J01-09-ARE/03 Dated: 27-08-2021

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

Date of Test 29-09-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		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	0.378	3	0.376	0.11	0.111	3600	4900	72200	71400	98200	97200	1.10	13.8	S.J Steel
2	0.374	3	0.374	0.11	0.110	3600	4900	72200	72100	98200	98200	1.30	16.3	
3	0.375	3	0.374	0.11	0.110	3600	4900	72200	72050	98200	98100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three 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/10/37121

Dated: 29-09-2021

Dated of Test: 29-08-2021

To  
Deputy Director (QCD)  
Water & Sanitation Agency  
Faisalabad  
(M/s United I & II RCC Pipe Manufacturing Factory Millat Road Near Grace Hoisery  
Faisalabad)

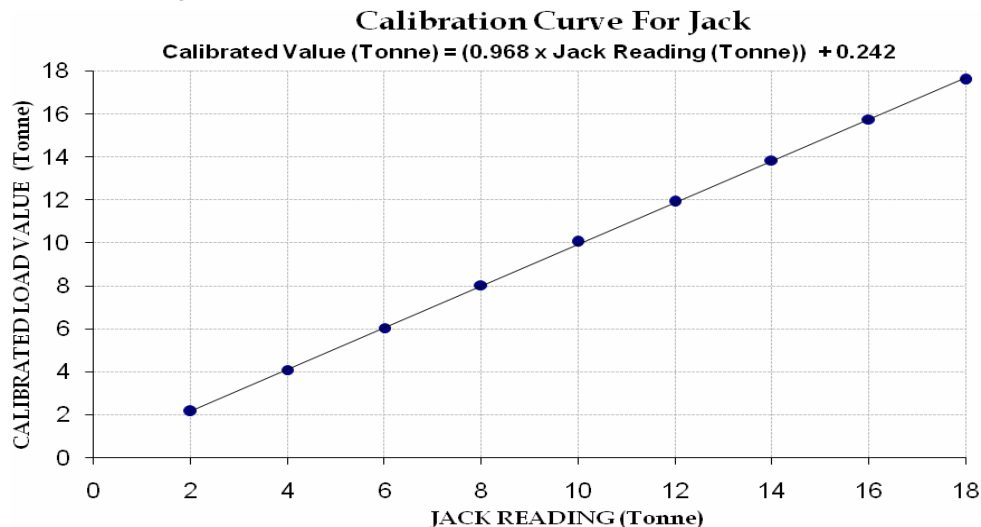
Subject: - **CALIBRATION OF HYDRAULIC JACK WITH GAUGE**  
(MARK: TFL/10/37121)

Reference to your Letter No. 429-432/DD (QCD)/WASA/2021, Dated: 18/09/2021 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 - 20 (Tonne)**  
**Calibrated Range : Zero - 18 (Tonne)**

Hydraulic Jack Reading (Psi)	2	4	6	8	10	12	14	16	18
kg	2146	4068	6040	8012	10034	11907	13830	15752	17576
Tonne	2.15	4.07	6.04	8.01	10.03	11.91	13.83	15.75	17.58

1 Tonne = 1000 kg



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