



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 Defence Housing Authority.
Lahore Cantt
(Infra Dev Works of Sector-J,(Pkg-9),DHA Ph-IX (M/s FWO)

Reference # CED/TFL **34447** (Dr. Waseem Abbass)
Reference of the request letter # 408/241/E/Lab/817/2007

Dated: 09-01-2020
Dated: 06-01-2020

Tension Test Report (Page -1/1)

Date of Test 10-01-2020
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	0.395	3	0.384	0.11	0.116	3050	4450	61200	57900	89200	84500	1.50	18.8	
2	0.387	3	0.380	0.11	0.114	2700	3700	54100	52350	74200	71800	1.50	18.8	
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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.

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,
 Ata Ul Qudus Khan
 Chanab Nagar, Chiniot

Reference # CED/TFL **34448** (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 09-01-2020
 Dated: 09-01-2020

Tension Test Report (Page -1/1)

Date of Test 10-01-2020
 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	0.347	3	0.360	0.11	0.102	3650	4750	73200	78890	95200	102700	1.30	16.3	
2	0.347	3	0.360	0.11	0.102	3600	4700	72200	77800	94200	101600	1.20	15.0	
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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
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Department of Civil Engineering
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To,
 Sub Divisional Officer
 Buildings Division No. 17
 GOR-I, Lahore
 (Construction of 3-Nos Houses in Place of 4-College Road in GOR-I, Lahore)

Reference # CED/TFL **34450** (Dr. Waseem Abbass)
 Reference of the request letter # 331

Dated: 09-01-2020
 Dated: 20-12-2019

Tension Test Report (Page -1/1)

Date of Test 10-01-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.364	3/8	0.369	0.11	0.107	2800	4000	56200	57610	80200	82300	1.40	17.5	
2	0.360	3/8	0.367	0.11	0.106	2800	4000	56200	58310	80200	83300	1.20	15.0	
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Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
 Resident Head (Civil)
 Jagran-II Hydropower Consultants
 JHC- 48 MW Jagran-II Hydropower Project
 (Pak Steel)

Reference # CED/TFL **34452** (Dr. Waseem Abbass)
 Reference of the request letter # E314-L-JHC-RE-EPCC-OC-176

Dated: 09-01-2020
 Dated: 08-01-2020

Tension Test Report (Page -1/2)

Date of Test 10-01-2020
 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	4.290	32	32.18	1.25	1.261	44600	59600	78660	77960	105115	104200	1.50	18.8	
2	4.272	32	32.12	1.25	1.256	44200	59200	77955	77590	104410	104000	1.40	17.5	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Mohsin Ayaz (JHC Engineer)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To
 Resident Head (Civil)
 Jaggran-II Hydropower Consultants
 JHC- 48 MW Jaggran-II Hydropower Project

Reference # CED/TFL **34452** (Dr. Waseem Abbass)
 Reference of the request letter # E314-L-JHC-RE-EPCC-OC-177

Dated: 09-01-2020
 Dated: 08-01-2020

Tension Test Report (Page -1/2)

Date of Test 10-01-2020
 Gauge length -----
 Description Plain Steel Wire Tensile Test as per ASTM-A82

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Reduced Area (in ²)	% Reduction of Area	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.144	6	5.91	-----	0.042	1720	1880	-----	89260	-----	97600	0.023	45.85	
2	0.144	6	5.91	-----	0.042	1670	1780	-----	86660	-----	92400	0.031	27.01	
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Note: only two samples for tensile test														
Bend Test														

Witness by Mohsin Ayaz (JHC Engineer)

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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University of Engineering and Technology Lahore, 54890
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To,
 M/S Acting Project Director,
 Air University Multan

Reference # CED/TFL **34459** (Dr. Waseem Abbass) Dated: 10-01-2020
 Reference of the request letter # MUX/AUMC/BH1/2019/046 Dated: 09-01-2020

Tension Test Report (Page -1/1)

Date of Test 10-01-2020
 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	0.379	3	0.376	0.11	0.111	3600	4900	72200	71290	98200	97100	1.20	15.0	FF Steel
2	0.379	3	0.376	0.11	0.111	3400	5000	68200	67350	100200	99100	1.20	15.0	
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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,
 SDO.
 Building Sub Division
 Shakargarh
 Reference # CED/TFL **34460** (Dr. Waseem Abbass)
 Reference of the request letter # 1797/sg

Dated: 10-01-2020
 Dated: 29-11-2019

Tension Test Report (Page -1/1)

Date of Test 10-01-2020
 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 (inch)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.379	3/8	0.376	0.11	0.111	4300	5100	86200	85150	102200	101000	1.00	12.5	
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Note: only one sample for tensile bend test														
Bend Test														

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