



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

To,
 Sub Divisional Officer,
 Changa Manga Sub Division. Changa Manga
 (Rehabilitation of Main Branch Lower from Head to Tail(Package-C))

Reference # CED/TFL **35936** (Dr. Waseem Abbass)
 Reference of the request letter # 316/IE/G

Dated: 14-01-2021
 Dated: 29-12-2020

Tension Test Report (Page -1/1)

Date of Test 15-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (# 3)	Nominal (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.392	3	0.383	0.11	0.115	3700	5100	74200	70690	102200	97500	1.20	15.0	
2	0.394	3	0.384	0.11	0.116	3800	5100	76200	72410	102200	97200	1.10	13.8	
3	0.388	3	0.381	0.11	0.114	3700	5200	74200	71600	104200	100700	1.20	15.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

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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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,
 Project Director
 New Metro City, Lahore
 (New Metro city Housing Scheme, Sara-I-Alamgir) (Steel SJ)

Reference # CED/TFL **35938** (Dr. Waseem Abbass)
 Reference of the request letter # PD/NMC/21/123

Dated: 14-01-2021
 Dated: 13-01-2021

Tension Test Report (Page -1/1)

Date of Test 15-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Diameter/ Size		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.363	3/8	0.369	0.11	0.107	3400	4800	68200	70240	96200	99200	1.20	15.0	
2	0.370	3/8	0.372	0.11	0.109	3600	5400	72200	73010	108200	109600	0.75	9.4	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and two samples 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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To,
 Defence Housing Authority
 Lahore
 (Const. of Interim Pumping Station (IPS) at Sector-B Ph-V(M/S BN Associates)) (Saeed Kasur)

Reference # CED/TFL **35940** (Dr. Qasim Khan)
 Reference of the request letter # 408/241/E/Lab/14/005

Dated: 15-01-2021
 Dated: 15-01-2021

Tension Test Report (Page -1/1)

Date of Test 18-01-2021
 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	0.389	3	0.381	0.11	0.114	3400	5300	68200	65620	106200	102300	1.10	13.8	
2	0.390	3	0.382	0.11	0.115	3400	5400	68200	65310	108200	103800	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
UET Lahore, Pakistan.

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To,
 SA-RA Group
 Nafiz Ozcan
 Contrator,s Representative(Commissioning of 220KV Double Circuit Transmission Line on Rail
 Conductor from D.I.Khan to Zhob) (Batala Steel)

Reference # CED/TFL **35941** (Dr. Asad Ghalani)
 Reference of the request letter # MIG/2021/28

Dated: 15-01-2021
 Dated: 13-01-2021

Tension Test Report (Page -1/1)

Date of Test 15-01-2021
 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	0.493	3	0.429	0.11	0.145	3440	4500	69000	52350	90200	68500	1.50	18.8	
2	0.496	3	0.431	0.11	0.146	4200	5920	84200	63440	118700	89500	1.60	20.0	
3	0.503	3	0.434	0.11	0.148	4380	6080	87800	65330	121900	90700	1.50	18.8	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only three samples for tensile and three samples for bend test

Bend Test

#3 Bar Bend Test Through 180° is Satisfactory

#3 Bar Bend Test Through 180° is Satisfactory

#3 Bar Bend Test Through 180° is Satisfactory

Witness by Sohaib Ali (Sub Engineer- Nespak)

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To,
 Senior Research Officer-I
 Building Research Station, Lahore
 (M/S Pak Iron & Steel Casting, Islamabad)

Reference # CED/TFL **35944** (Dr. Qasim Khan)
 Reference of the request letter # 154-R/130

Dated: 15-01-2021
 Dated: 14-01-2021

Tension Test Report (Page -1/1)

Date of Test 18-01-2021
 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	0.376	3	0.375	0.11	0.111	3400	4600	68200	67760	92200	91700	1.20	15.0	
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Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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