



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

To,
 Assistant Director Engg
 Gujranwala Development Authority
 Rehabilitation/Construction of Road along Noorpur Distributry from G.T. Road to Medical
 College Gondlanwala Road, Gujranwala

Reference # CED/TFL **33341** (Dr. Ali Ahmed)
 Reference of the request letter # GDA/ADE/57

Dated: 10-06-2019
 Dated: 27-05-2019

Tension Test Report (Page -1/1)

Date of Test 12-06-2019
 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 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	0.418	3/8	0.396	0.11	0.123	4800	6000	96200	86030	120300	107600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Resident Engineer
 Ess Ess Associates
 Construction of Family Wing Hospital 500 Beds at Sarfraz Rafiqui Road Lahore

Reference # CED/TFL **33342** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 10-06-2019
 Dated: 29-05-2019

Tension Test Report (Page -1/1)

Date of Test 12-06-2019
 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	0.377	0.11	0.111	3600	4700	72200	71180	94200	93000	1.00	12.5	
2	0.378	3	0.376	0.11	0.111	3600	4800	72200	71480	96200	95300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 Pakistan Kidney & Liver Institute and Research Center Hospital, Lahore

Reference # CED/TFL **33346** (Dr. Ali Ahmed) Dated: 11-06-2019
 Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-43 Dated: 27-05-2019

Tension Test Report (Page -1/1)

Date of Test 12-06-2019
 Gauge length 2 inches
 Description Threaded Rod Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	0.428	10	8.33	-----	54.5	2500	3000	450	540	0.2	10.0	
2	0.425	10	8.30	-----	54.1	2800	3100	508	562	0.2	10.0	
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-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

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To,
 Project Manager
 Muhammad Sohail Anjum
 P-156 Gulberg-II, Lahore

Reference # CED/TFL **33347** (Dr. Ali Ahmed)
 Reference of the request letter # P-156-001

Dated: 11-06-2019
 Dated: 11-06-2019

Tension Test Report (Page -1/1)

Date of Test 12-06-2019
 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	0.361	3	0.368	0.11	0.106	2800	4000	56200	58110	80200	83100	1.10	13.8	
2	0.360	3	0.367	0.11	0.106	2800	4100	56200	58270	82200	85400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Project Director (HVDC)
 NTDC Lahore
 (Construction of Boundary Wall at 660 kV HVDC Converter Station Head Balloki District
 Nankana Sahib)

Reference # CED/TFL **33350** (Dr. Ali Ahmed) Dated: 11-06-2019
 Reference of the request letter # 1206-11/PD/HVDC/NTDC/LHR Dated: 31-05-2019

Tension Test Report (Page -1/1)

Date of Test 12-06-2019
 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	0.387	3	0.380	0.11	0.114	3700	5300	74200	71740	106200	102800	1.00	12.5	
2	0.384	3	0.379	0.11	0.113	3800	5500	76200	74180	110200	107400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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