



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
Construction of 4-Lane Bridge Ravi River, Lahore.
(Aziz Steel)

Reference # CED/TFL **4615** (Dr. Usman Akmal)

Dated: 12-02-2024

Reference of the request letter # 4537/03/MSA/09/195

Dated: 06-02-2024

Tension Test Report (Page -1/2)

Date of Test 14-02-2024

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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.083	10	1.236	1.27	1.200	38600	54400	67000	70900	94500	100000	1.60	20.0	22
2	4.297	10	1.268	1.27	1.263	34800	55400	60400	60720	96200	96700	1.60	20.0	23
3	4.188	10	1.252	1.27	1.231	38400	56400	66700	68760	97900	101000	1.50	18.8	50
4	4.108	10	1.240	1.27	1.207	38800	55200	67400	70830	95800	100800	1.60	20.0	51
5	4.112	10	1.241	1.27	1.209	38200	55400	66300	69660	96200	101100	1.60	20.0	522
6	4.141	10	1.245	1.27	1.217	38400	55600	66700	69540	96500	100700	1.60	20.0	523

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

Bend Test

#10 Bar Bend Test Through 180° is Satisfactory

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I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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 Reference of the request letter # 4537/03/MSA/09/195

Dated: 12-02-2024
 Dated: 06-02-2024

Tension Test Report (Page -2/2)

Date of Test 14-02-2024
 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.139	10	1.245	1.27	1.217	37400	55000	65000	67760	95500	99700	1.50	18.8	34
2	4.038	10	1.229	1.27	1.187	37600	53200	65300	69830	92400	98800	1.50	18.8	36
3	4.175	10	1.250	1.27	1.227	35800	57000	62200	64310	99000	102400	1.40	17.5	39
4	4.104	10	1.239	1.27	1.206	37200	54600	64600	67980	94800	99800	1.40	17.5	526
5	4.045	10	1.230	1.27	1.189	34600	55000	60100	64150	95500	102000	1.50	18.8	534
6	4.135	10	1.244	1.27	1.215	37400	54600	65000	67830	94800	99100	1.40	17.5	535
7	4.074	10	1.235	1.27	1.198	37400	55000	65000	68840	95500	101300	1.50	18.8	537
8	4.092	10	1.237	1.27	1.203	37400	55200	65000	68540	95800	101200	1.50	18.8	538

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

Bend Test

#10 Bar Bend Test Through 180° is Satisfactory
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To,

Assistant Engineer (Civil)
University of Engineering and Technology, Lahore
Renovation and Rehabilitation of Washrooms of Mumtaz Hall and Zubair Hall Main
Campus, UET Lahore.

Reference # CED/TFL **4621**(Dr. Asad Ali)
Reference of the request letter # B&W/AEN-C/MZ/01

Dated: 12-02-2024
Dated: 12-02-2024

Tension Test Report (Page -1/1)

Date of Test 13-02-2024
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	0.366	3	0.370	0.11	0.107	3230	4640	64800	66260	93000	95200	1.10	13.8	
2	0.384	3	0.379	0.11	0.113	3380	4810	67800	66030	96400	94000	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														

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To,
M/S Park View Enclave (Private) Limited
Islamabad

Reference # CED/TFL **4622** (Dr. Asad Ali)
Reference of the request letter # Nil

Dated: 12-02-2024
Dated: 06-02-2024

Tension Test Report (Page -1/1)

Date of Test 14-02-2024
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	0.371	3	0.373	0.11	0.109	3430	4960	68800	69350	99400	100300	1.20	15.0	Aziz Industries	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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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To,
Resident Engineer
Shahzad Ayub Associates (SAA)
New Metro City Srai Alamgir

Reference # CED/TFL **4635** (Dr. Asad Ali)
Reference of the request letter # SAA-St-Rep-014

Dated: 13-02-2024
Dated: 12-02-2024

Tension Test Report (Page -1/1)

Date of Test 14-02-2024
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	4030	5370	80800	80340	107600	107100	1.20	15.0	FF Steel
2	0.372	3	0.373	0.11	0.109	3940	5150	79000	79320	103200	103700	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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