



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

Ref: CED/TFL/11/34237

Dated: 29-11-19

Date of Test: 04-12-19

To

M/S Afghan Sadaqat Construction & Road Making Company / Bakhtar Afghan Construction Company Joint Venture (ASSC-BACCarat - JV)
(Rehabilitation of Lower Kohcha Irrigation - Zone 1: Sharawan Canal (SHRC), LKIP/SHRS)
(IFB # NPA/MEW/96 W- 1924 ICB)
(Vehicle Bridge 13M, Province: KUNDUZ, District: Imam Sahib)
(Ministry of Energy and Water, Islamic Republic of Afghanistan)

Subject: - TEST RESULT REPORT FOR BEARING DEVICE (PAD) (Page # 1/3)

Reference to your letter no. Nil, Dated: 25/11/2019 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP) (350x350x106mm) has been received by us. The same was tested and results are given below.

Laboratory	:	TEST FLOOR LAB
Machine	:	SHIMADZU
Sample No.	:	1/3
Dimensions of EBRP	:	362.00 x 363.00 x 103.80 mm

TEST RESULTS - SHORT DURATION

Load Duration	:	5+5 minutes
Test Load	:	100 TONS
Bulging Pattern	:	Uniform Buldging.
Laminated Parallelism	:	Parallel
Cracks	:	No crack is observed

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

Ref: CED/TFL/11/34237

Dated: 29-11-19

Date of Test: 04-12-19

To

M/S Afghan Sadaqat Construction & Road Making Company / Bakhtar Afghan Construction Company Joint Venture (ASSC-BACCarat - JV)

(Rehabilitation of Lower Kohcha Irrigation - Zone 1: Sharawan Canal (SHRC), LKIP/SHRS)

(IFB # NPA/MEW/96 W- 1924 ICB)

(Vehicle Bridge 10M, Province: KUNDUZ, District: Imam Sahib)

(Ministry of Energy and Water, Islamic Republic of Afghanistan)

Subject: - **TEST RESULT REPORT FOR BEARING DEVICE (PAD)** (Page # 2/3)

Reference to your letter no. Nil, Dated: 25/11/2019 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP)(250x350x63.5mm) has been received by us. The same was tested and results are given below.

Laboratory	:	TEST FLOOR LAB
Machine	:	SHIMADZU
Sample No.	:	2/3
Dimensions of EBRP	:	355.00 x 259.00 x 64.43 mm

TEST RESULTS - SHORT DURATION

Load Duration	:	5+5 minutes
Test Load	:	70 TONS
Bulging Pattern	:	Uniform Buldging.
Laminated Parallelism	:	Parallel
Cracks	:	No crack is observed

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/11/34237

Dated: 29-11-19

Date of Test: 04-12-19

To

M/S Afghan Sadaqat Construction & Road Making Company / Bakhtar Afghan Construction Company Joint Venture (ASSC-BACCarat - JV)
(Rehabilitation of Lower Kohcha Irrigation - Zone 1: Sharawan Canal (SHRC), LKIP/SHRS)
(IFB # NPA/MEW/96 W- 1924 ICB)
(Vehicle Bridge 7M, Province: KUNDUZ, District: Imam Sahib)
(Ministry of Energy and Water, Islamic Republic of Afghanistan)

Subject: - TEST RESULT REPORT FOR BEARING DEVICE (PAD) (Page # 3/3)

Reference to your letter no. Nil, Dated: 25/11/2019 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP)(250x250x62.5mm) has been received by us. The same was tested and results are given below.

Laboratory	:	TEST FLOOR LAB
Machine	:	SHIMADZU
Sample No.	:	3/3
Dimensions of EBRP	:	254.00 x 258.00 x 60.93 mm

TEST RESULTS - SHORT DURATION

Load Duration	:	5+5 minutes
Test Load	:	50 TONS
Bulging Pattern	:	Uniform Buldging.
Laminated Parallelism	:	Parallel
Cracks	:	No crack is observed

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

Ref: CED/TFL/11/34238

Dated: 29-11-19

Date of Test: 04-12-19

To
Assistant Resident Engineer
Associated Consulting Engineers - ACE Limited
Construction of Peshawar Bara Bridge Project Khyber Agency

Subject: - TEST RESULT REPORT FOR BEARING DEVICE (PAD) (Page # 1/1)

Reference to your letter no. Bara Bridge/ACE/ARE-2/19/-32, Dated: 25/11/2019 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP) has been received by us. The same was tested and results are given below.

Laboratory : **TEST FLOOR LAB**
Machine : **SHIMADZU**
Sample No. : **1/1**
Dimensions of EBRP : **554.00 x 453.00 x 73.38 mm**

TEST RESULTS - SHORT DURATION

Load Duration : **5+5 minutes**
Test Load : **120 TONS**
Bulging Pattern : **Uniform Buldging.**
Laminated Parallelism : **Parallel**
Cracks : **No crack is observed**

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Project Manager
 M Sohail Anjum
 P-156 Gublerg II Lahore

Reference # CED/TFL **34245** (Dr. Waseem Abbas)
 Reference of the request letter # P-156-037

Dated: 02-12-2019
 Dated: 02-12-2019

Tension Test Report (Page -1/1)

Date of Test 04-12-2019
 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	0.363	3	0.368	0.11	0.107	3600	5000	72200	74420	100200	103400	1.20	15.0	
2	0.366	3	0.370	0.11	0.107	3500	4800	70200	71800	96200	98500	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Pakistan. Ph: 92-42-99029202

To,
M.E
M/S AS Enterprises
Style Textile Raiwind Road
(AA Associates)(Afce)

Reference # CED/TFL **34248** (Dr. Waseem Abbas)
Reference of the request letter # USD/ASE/17

Dated: 02-12-2019
Dated: 02-12-2019

Tension Test Report (Page -1/1)

Date of Test 04-12-2019
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	0.377	10	9.54	0.12	0.111	4100	5300	75324	81630	97370	105600	1.00	12.5	
2	0.376	10	9.53	0.12	0.110	3800	5100	69812	75830	93696	101800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Sub Divisional Officer (Buildings)
 Sub Division Sheikhupura
 (Construction of 02-Nos Additional Class Rooms at GGPS Chak No. 5 UCC Tehsil Sheikhupura
 District Sheikhupura)

Reference # CED/TFL **34249** (Dr. Waseem Abbass)
 Reference of the request letter # 6114/S

Dated: 02-12-2019
 Dated: 28-11-2019

Tension Test Report (Page -1/2)

Date of Test 04-12-2019
 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	0.386	3/8	0.380	0.11	0.113	3100	4900	62200	60240	98200	95300	1.30	16.3	
2	0.386	3/8	0.380	0.11	0.113	3100	4900	62200	60220	98200	95200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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 (Buildings)
 Sub Division Sheikhupura
 (Construction of 02-Nos Additional Class Rooms at GPS Hoikay Tehsil Sheikhupura District Sheikhupura)

Reference # CED/TFL **34249** (Dr. Waseem Abbass)
 Reference of the request letter # 6129/S

Dated: 02-12-2019
 Dated: 29-11-2019

Tension Test Report (Page -2/2)

Date of Test 04-12-2019
 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	0.383	3/8	0.378	0.11	0.112	3100	4900	62200	60760	98200	96100	1.00	12.5	
2	0.373	3/8	0.374	0.11	0.110	3000	4500	60200	60280	90200	90500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer (Buildings)
 Sub Division Sheikhupura
 (Construction of 02-Nos Additional Class Rooms at GPS Fateh Kalas Tehsil Sheikhupura
 District Sheikhupura)

Reference # CED/TFL **34250** (Dr. Waseem Abbass)
 Reference of the request letter # 6128/S

Dated: 02-12-2019
 Dated: 29-11-2019

Tension Test Report (Page -1/3)

Date of Test 04-12-2019
 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	0.366	3/8	0.370	0.11	0.108	2800	4100	56200	57300	82200	84000	1.50	18.8	
2	0.364	3/8	0.369	0.11	0.107	2700	4100	54100	55590	82200	84500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer (Buildings)
 Sub Division Sheikhupura
 (Construction of 02-Nos Additional Class Rooms at GPS Chak 11 UCC Sharaqpur District Sheikhupura)

Reference # CED/TFL **34250** (Dr. Waseem Abbass)
 Reference of the request letter # 6113/S

Dated: 02-12-2019
 Dated: 28-11-2019

Tension Test Report (Page -2/3)

Date of Test 04-12-2019
 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	0.385	3/8	0.380	0.11	0.113	3200	4700	64200	62260	94200	91500	1.10	13.8	
2	0.389	3/8	0.382	0.11	0.114	3100	4700	62200	59730	94200	90600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Sub Divisional Officer (Buildings)
 Sub Division Sheikhupura
 (Construction of 02-Nos Additional Class Rooms at GPS Manga Virkan Tehsil Sheikhupura
 District Sheikhupura)

Reference # CED/TFL **34250** (Dr. Waseem Abbass)
 Reference of the request letter # 6131/S

Dated: 02-12-2019
 Dated: 29-11-2019

Tension Test Report (Page -3/3)

Date of Test 04-12-2019
 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	0.376	3/8	0.375	0.11	0.110	3000	4600	60200	59850	92200	91800	1.20	15.0	
2	0.390	3/8	0.382	0.11	0.115	3000	4600	60200	57670	92200	88500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Sui Northern Gas Pipelines Limited
Lahore
(Civil Works and Bill Printing Setup at Central Base Store Manga)

Reference # CED/TFL **34252** (Dr. Waseem, Abbass)
Reference of the request letter # CC/01/CBS/Manga

Dated: 02-12-2019
Dated: 02-12-2019

Tension Test Report (Page -1/1)

Date of Test 04-12-2019
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	0.380	3/8	0.377	0.11	0.112	3100	4500	62200	61190	90200	88900	1.40	17.5	
2	0.382	3/8	0.378	0.11	0.112	3100	4500	62200	60860	90200	88400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Assistant Project Director
 PMU-SBP Sahiwal
 (Construction of Tehsil Sports Complex at 36 SP Pakpattan District Pakpattan)

Reference # CED/TFL **34256** (Dr. Waseem Abbass)

Dated: 03-12-2019

Reference of the request letter # APD/PMU/SBP/SWL/19/120

Dated: 28-11-2019

Tension Test Report (Page -1/1)

Date of Test 04-12-2019

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	0.382	3	0.378	0.11	0.112	3100	4000	62200	60790	80200	78500	1.60	20.0	
2	0.381	3	0.378	0.11	0.112	3000	3900	60200	59040	78200	76800	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

Note:

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

To,
 Anti-Corruption Establishment
 Faisalabad Region, Faisalabad
 (Agriculture University Faisalabad)

Reference # CED/TFL **34257** (Dr. Waseem Abbass)
 Reference of the request letter # ACE-FR-(DDT)2019/318

Dated: 03-12-2019
 Dated: 27-11-2019

Tension Test Report (Page -1/1)

Date of Test 04-12-2019
 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	0.369	3/8	0.372	0.11	0.109	3200	5200	64200	64960	104200	105600	1.40	17.5	
2	0.376	3/8	0.375	0.11	0.110	3200	5100	64200	63900	102200	101900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,
 Assistant Resident Engineer
 ES Consultants Pvt Ltd.
 Consultancy Services for The Project Technical Assistance, Design and Supervisory Services to
 PMIU and School Council/Licensees for the Construction of Additional Class Rooms in Selected
 Schools of Punjab (Package-2)(School :- GGPS Baroon Gaddoki & GGPS Naseerabad District
 Kasur)(EMIS :- 35120583 & 35120500)
 Reference # CED/TFL **34258** (Dr. Waseem Abbass) Dated: 03-12-2019
 Reference of the request letter # ESC/PMIU/P2/0023 Dated: 27-11-2019

Tension Test Report (Page -1/1)

Date of Test 04-12-2019
 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 (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.392	3	0.383	0.11	0.115	2700	4000	54100	51690	80200	76600	1.60	20.0	
2	0.391	3	0.383	0.11	0.115	2700	4000	54100	51750	80200	76700	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
 SQN LDR
 GE (Air) Rafiqui
 (Rehabilitation of Servant Qtrs at Domestic and Rafiqui at PAF Base Rafiqui)

Reference # CED/TFL **34259** (Dr. Waseem Abbass)
 Reference of the request letter # 6000-Test/04/E-6

Dated: 03-12-2019
 Dated: 02-12-2019

Tension Test Report (Page -1/1)

Date of Test 04-12-2019
 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	0.386	3/8	0.380	0.11	0.114	3300	4800	66200	64050	96200	93200	1.20	15.0	
2	0.385	3/8	0.379	0.11	0.113	3300	4800	66200	64310	96200	93600	1.00	12.5	
3	0.385	3/8	0.380	0.11	0.113	3200	4700	64200	62340	94200	91600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples 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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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 (Buildings)
 Sub Division Sheikhupura
 (GPS Kot Mirza Din M. Tehsil Safdarabad District Sheikhupura)(EMIS Code 35620435)

Reference # CED/TFL **34260** (Dr. Waseem Abbass)
 Reference of the request letter # 6147/S

Dated: 03-12-2019
 Dated: 29-11-2019

Tension Test Report (Page -1/3)

Date of Test 04-12-2019
 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	0.363	3/8	0.368	0.11	0.107	2700	4100	54100	55810	82200	84800	1.70	21.3	
2	0.366	3/8	0.370	0.11	0.108	2800	4000	56200	57360	80200	82000	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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 (Buildings)
 Sub Division Sheikhupura
 (GPS Kot Deena Tehsil Sharaqpur District Sheikhupura)(EMIS Code 35440408)

Reference # CED/TFL **34260** (Dr. Waseem Abbass)
 Reference of the request letter # 6147/S

Dated: 03-12-2019
 Dated: 29-11-2019

Tension Test Report (Page -2/3)

Date of Test 04-12-2019
 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	0.363	3/8	0.369	0.11	0.107	2700	4100	54100	55800	82200	84800	1.70	21.3	
2	0.364	3/8	0.369	0.11	0.107	2800	4100	56200	57710	82200	84500	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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 (Buildings)
 Sub Division Sheikhupura
 (GPS Chanian Wali Tehsil Safdarabad District Sheikhupura)(EMIS Code 35620369)

Reference # CED/TFL **34260** (Dr. Waseem Abbass)
 Reference of the request letter # 6147/S

Dated: 03-12-2019
 Dated: 29-11-2019

Tension Test Report (Page -3/3)

Date of Test 04-12-2019
 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	0.366	3/8	0.370	0.11	0.108	2800	4100	56200	57360	82200	84000	1.30	16.3	
2	0.363	3/8	0.368	0.11	0.107	2800	4100	56200	57880	82200	84800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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