STRUCTURAL ENGINEERING DIVISION

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

To,
Chief Resident Engineer
NESPAK
Development of Kartarpur Coridor

Reference # CED/TFL **33935** (Dr. M Yousaf) Dated: 01-10-2019
Reference of the request letter # SA-394/DKC/GR/Test/SM/115 Dated: 01-10-2019

Tension Test Report (Page – 1/1)

Date of Test 04-10-2019
Gauge length 2 inches
Description W - Beam & GR Post Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	------	(cm)	(cm^2)	(kg)	(kg)	(kg/cm^2)	(kg/cm^2)	(in)		
1	W - Beam	2.49x0.285	0.71	2600	3500	3663.78	4932.01	0.60	30.00	
2	W - Beam	2.49x0.285	0.71	2700	3500	3804.69	4932.01	0.60	30.00	
3	GR Post	2.41x0.710	1.71	6500	9100	3798.73	5318.22	0.60	30.00	
4	GR Post	2.49x0.710	1.77	7200	9300	4072.63	5260.48	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four 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

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To,
Assistant Manager
Volka Food International Ltd, Multan
(FF Steel)

Reference # CED/TFL **33946** (Dr. Asif Hameed) Dated: 03-10-2019
Reference of the request letter # Nil Dated: 23-09-2019

Tension Test Report (Page -1/1)

Date of Test 04-10-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.398	10	9.80	0.12	0.117	4200	5400	77161	79140	99207	101800	1.30	16.3	
2	0.399	10	9.81	0.12	0.117	4300	5400	78998	80890	99207	101600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180º is Satisfactory														

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To,
Resident Engineer
Orbit Housing
The Spring Apartment Homes

Reference # CED/TFL **33949** (Dr. Asif Hameed) Dated: 03-10-2019
Reference of the request letter # Nil Dated: 03-10-2019

Tension Test Report (Page -1/1)

Date of Test 04-10-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.107	4000	5000	80200	82020	100200	102600	1.00	12.5	
2	0.367	3	0.371	0.11	0.108	4000	5200	80200	81710	104200	106300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

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To,
Sub Divisional Officer
Buildings Sub Division
Jaranwala
(Up-gradation of Govt: Girls Primary School to Middle Level at Chak No. 74/RB-I, Tehsil Jaranwala District Faisalabad)
Reference # CED/TFL **33950** (Dr. Asif Hameed) Dated: 03-10-2019
Reference of the request letter # 1522/J Dated: 09-09-2019

Tension Test Report (Page -1/2)

Date of Test 04-10-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.380	3/8	0.377	0.11	0.112	2600	3750	52100	51310	75200	74000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Sub Divisional Officer
Buildings Sub Division
Jaranwala
(Re-Construction of 02-No Class Room (24' x 16') with Ver.: at Govt Boys Primary School Chak No. 67/RB-II, Tehsil Jaranwala District Faisalabad)
(Re-Construction of High Portion (4700-Sft) at Govt: High School at Chak No. 29/GB, Tehsil Jaranwala District Faisalabad)

Reference # CED/TFL **33950** (Dr. Asif Hameed) Dated: 03-10-2019
Reference of the request letter # 1570/J Dated: 15-09-2019

Tension Test Report (Page -2/2)

Date of Test 04-10-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.387	3/8	0.381	0.11	0.114	3000	4100	60200	58140	82200	79500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Bully Shah Cold Storage
Defence Road, Lahore

Reference # CED/TFL **33955** (Dr. Asad Ali) Dated: 04-10-2019
Reference of the request letter # Nil Dated: 04-10-2019

Tension Test Report (Page -1/1)

Date of Test 04-10-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.359	3	0.367	0.11	0.106	3770	4690	75600	78730	94000	98000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Jamia Tul Muntazar (Trust)
Model Town, Lahore

Reference # CED/TFL **33956** (Dr. Asad Ali) Dated: 04-10-2019
Reference of the request letter # Nil Dated: 04-10-2019

Tension Test Report (Page -1/1)

Date of Test 04-10-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3	0.374	0.11	0.110	4130	4990	82800	82850	100000	100100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

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UET Lahore, Pakistan.

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