STRUCTURAL ENGINEERING DIVISION

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

To,
Executive Engineer
Highway Division, Khushab
(Dualization of Sargodha Khushab Mianwali Road in District Khgushab Group-II from km no. 211.50 to 222.25 = Length 1075 km in District Khushab)

Reference # CED/TFL **37885** (Engr. Amina Rajput) Dated: 15-02-2022
Reference of the request letter # 174/CB Dated: 22-01-2022

Tension Test Report (Page -1/1)

Date of Test 16-02-2022
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	0.401	3	0.387	0.11	0.118	3900	5000	78200	72990	100200	93600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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

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
Highway Sub Division
Bhera
(Rehabilitation / Widening and Improvement of Shahpur Bhera Malikwal Road Length 76.50 km Section km no. 50.30 to 76.50 = Length 26.20 km (Bhera to Malikwal Road) Phase – II Under ADP-2021-22
Reference # CED/TFL **37886** (Engr. Amina Rajput) Dated: 15-02-2022
Reference of the request letter # 54 Dated: 17-01-2022

Tension Test Report (Page -1/1)

Date of Test 16-02-2022
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	0.406	3	0.390	0.11	0.119	4100	5100	82200	75770	102200	94300	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
Construction of Boys Hostel, Girls Hostel & Bachelor Faculty Hostel at New Campus of Ghazi University, Dera Ghazi Khan

Reference # CED/TFL **37888** (Engr. Amina Rajput) Dated: 15-02-2022
Reference of the request letter # 4026/325/MU/Misc/17 Dated: 13-02-2022

Tension Test Report (Page -1/1)

Date of Test 16-02-2022
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	0.376	3	0.375	0.11	0.111	2500	3500	50100	49800	70200	69800	1.60	20.0	SJ Steel
2	0.383	3	0.378	0.11	0.113	2600	3500	52100	50940	70200	68600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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
Pakistan. Ph: 92-42-99029202

To,
Project Manager
Jahangir Muggo Residence-01
ASTACO

Reference # CED/TFL **37891** (Engr. Amina Rajput) Dated: 15-02-2022
Reference of the request letter # Nil Dated: 15-02-2022

Tension Test Report (Page -1/1)

Date of Test 16-02-2022
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	4200	5100	84200	82910	102200	100700	0.80	10.0	
2	0.382	3/8	0.378	0.11	0.112	4500	5400	90200	88350	108200	106100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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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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
Sitara Heights Private Limited
Sitara 3-Jays Tower Firdous Market Lahore

Reference # CED/TFL **37892** (Engr. Amina Rajpur) Dated: 15-02-2022
Reference of the request letter # SHPL/3JAYS/LHR/03 Dated: 15-02-2022

Tension Test Report (Page -1/1)

Date of Test 16-02-2022
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	0.378	3	0.376	0.11	0.111	3200	4900	64200	63450	98200	97200	1.40	17.5	Ittehad Steel
2	0.377	3	0.375	0.11	0.111	3300	4900	66200	65710	98200	97600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º 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
Pakistan. Ph: 92-42-99029202

To,
CM at Colony Extension Building
Master Textile Mills Raiwind
Thaheem Construction Company

Reference # CED/TFL **37893** (Engr. Amina Rajput) Dated: 15-02-2022
Reference of the request letter # Nil Dated: 14-02-2022

Tension Test Report (Page -1/1)

Date of Test 16-02-2022
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	0.372	3	0.373	0.11	0.109	3500	4600	70200	70530	92200	92700	0.80	10.0	
2	0.374	3	0.374	0.11	0.110	3400	4700	68200	68210	94200	94300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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
Pakistan. Ph: 92-42-99029202

To,
M/S Project Manager
Pearl Real Estate Holding (Pvt) Ltd
Pearl Continental Hotel (PCH), Multan

Reference # CED/TFL **37894** (Engr. Amina Rajput) Dated: 15-02-2022
Reference of the request letter # Nil Dated: 13-01-2022

Tension Test Report (Page – 1/1)

Date of Test 16-02-2022
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	**8**	**0.251**	**4500**	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

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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 Defence Housing Authority.
Lahore Cantt
(Infra Dev Works of IVY Green Sector-Z DHA Ph-VIII (M/s DHA-C))

Reference # CED/TFL **37895** (Engr. Amina Rajput) Dated: 15-02-2022
Reference of the request letter # 408/241/E/Lab/39/326 Dated: 15-02-2022

Tension Test Report (Page -1/1)

Date of Test 16-02-2022
Gauge length ------
Description Plain Steel Bar Tensile Test as per ASTM-A82

Sr. No.	Weight	Diameter/ size		Area (mm^2)		Yield load	Breaking Load	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Reduced Area	% Reduction of Area	Remarks
	(kg/m)	Nominal (in)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(mm^2)		
1	0.308	1/4	7.06	------	39.18	1960	2720	------	491	------	681	17.35	55.71	
2	0.316	1/4	7.16	------	40.28	2000	2600	------	487	------	633	15.55	61.40	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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