

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

To,

Resident Engineer Diamer Basha Consultants Group (DBCG) NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv Diamer Basha Dam Project

(WMI)

Reference # CED/TFL 4179 (Dr. Safeer Abbass)

Reference of the request letter # DBCG/Lab/PF JV/2023/056

Dated: 13-11-2023

Dated: 07-11-2023

Tension Test Report (Page -1/2)

Date of Test 15-11-2023 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight		trength e (6.3)	stre	nking ngth e (6.2)	Young's Modulus of Elasticity "E"	Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa	%	Rema
1	12.70 (1/2")	780.0	787.0	18100	177.56	19700	193.26	199	>3.50	WS-S4-2023-10
-	-	-	-	-	-	-	-	-	-	
_	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only one sample for Test

Note:

- 1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM A416a
- 2. Load versus percentage strain graphs are attached

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,

Resident Engineer Diamer Basha Consultants Group (DBCG) NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv Diamer Basha Dam Project

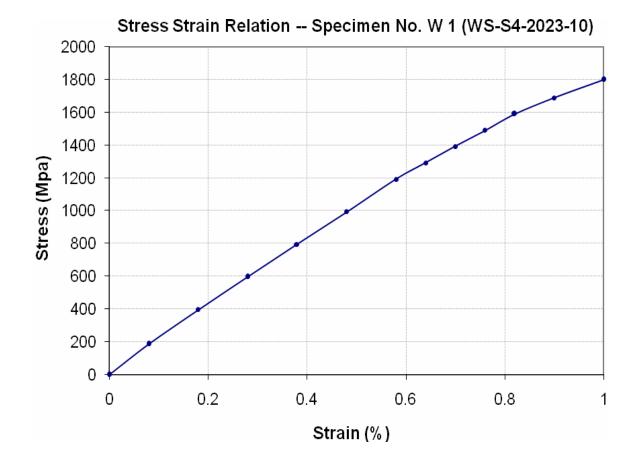
Reference # CED/TFL 4179 (Dr. Safeer Abbass)

Reference of the request letter # DBCG/Lab/PF JV/2023/056

Dated: 13-11-2023

Dated: 07-11-2023

Graph (Page – 2/2)



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,

Resident Engineer PEAS Consulting (Pvt) Ltd. Dualization of Quetta Western Bypass Project (N-25)

Reference # CED/TFL **4180** (Dr. Safeer Abbass)

Reference of the request letter # RE/PEAS/NHA/QWBP/63

Dated: 13-11-2023

Dated: 07-11-2023

Tension Test Report (Page -1/3)

Date of Test 15-11-2023 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield s clause	trength e (6.3)	stre	aking ngth e (6.2)	Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa	%	Rema
1	12.70 (1/2")	780.0	785.0	17300	169.71	19800	194.24	199	>3.50	24783
2	12.70 (1/2")	780.0	786.0	17100	167.75	19200	188.35	198	>3.50	24784
3	12.70 (1/2")	780.0	786.0			15700	154.02		<3.50 Not ok	24790
-	-	-	-	1	-	-	-	-	-	
-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only three samples for Test

Note:

- 1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM A416a
- 2. Load versus percentage strain graphs are attached

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,

Resident Engineer PEAS Consulting (Pvt) Ltd. Dualization of Quetta Western Bypass Project (N-25)

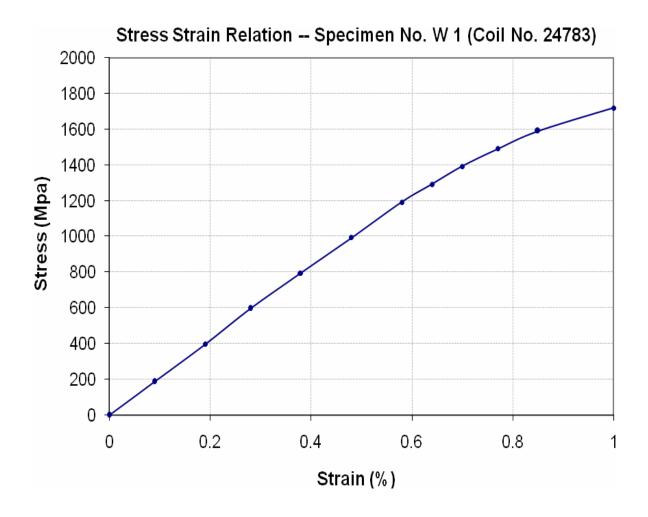
Reference # CED/TFL 4180 (Dr. Safeer Abbass)

Reference of the request letter # RE/PEAS/NHA/QWBP/63

Dated: 13-11-2023

Dated: 07-11-2023

Graph (Page -2/3)



I/C Testing Laboratoires UET Lahore, Pakistan.

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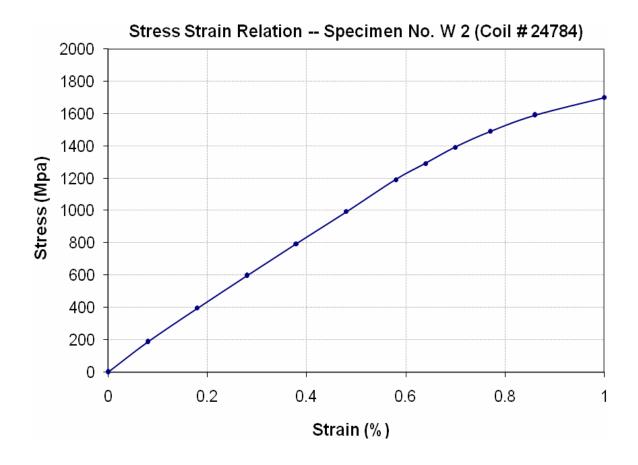
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Reference of the request letter # RE/PEAS/NHA/QWBP/63

Dated: 13-11-2023

Dated: 07-11-2023

Graph (Page – 3/3)



I/C Testing Laboratoires UET Lahore, Pakistan.

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LAHORE -

STRUCTURAL ENGINEERING DIVISION

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

To,

Project Director (Pinjra Bridge) NHA (N-65), Quetta (WMI)

Reference # CED/TFL **4181** (Dr. Safeer Abbass)

Reference of the request letter # PD(Pinjra-Bridge)/NHA/N-65/2023/011

Dated: 13-11-2023

Dated: 07-11-2023

Tension Test Report (Page -1/4)

Date of Test 15-11-2023 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield s clause	trength e (6.3)	stre	nking ngth e (6.2)	Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa	%	Rema
1	12.70 (1/2")	780.0	785.0	17700	173.64	19200	188.35	199	>3.50	XX
2	12.70 (1/2")	780.0	785.0	18100	177.56	19600	192.28	199	>3.50	XX
3	12.70 (1/2")	780.0	784.0	17900	175.60	19500	191.30	198	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
_	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only three samples for Test

Note:

- 1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM A416a
- 2. Load versus percentage strain graphs are attached

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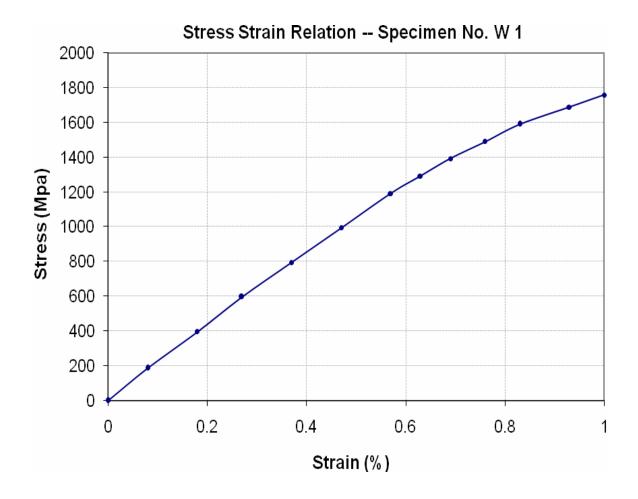
To,

Project Director (Pinjra Bridge) NHA (N-65), Quetta (WMI)

Reference # CED/TFL <u>4181 (Dr. Safeer Abbass)</u>

Reference of the request letter # PD(Pinjra-Bridge)/NHA/N-65/2023/011 Dated: 07-11-2023

Graph (Page -2/4)



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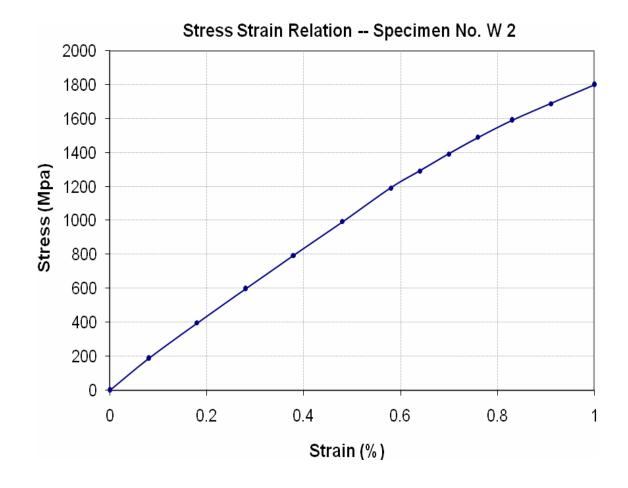
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Graph (Page – 3/4)



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To,

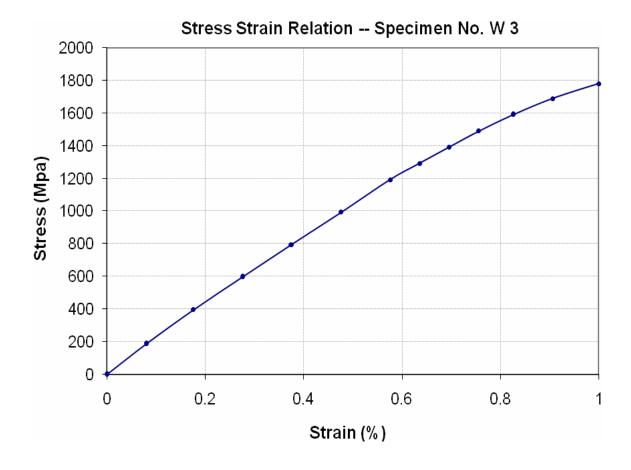
Project Director (Pinjra Bridge) NHA (N-65), Quetta (WMI)

Reference # CED/TFL 4181 (Dr. Safeer Abbass)

Dated: 13-11-2023

Reference of the request letter # PD(Pinjra-Bridge)/NHA/N-65/2023/011 Dated: 07-11-2023

Graph (Page – 4/4)



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

To,

Chief Engineer Zaitoon New Lahore City

Construction of Monument (Zaitoon Life Style) by M/s Stallion Steel Engineering Lahore

Reference # CED/TFL <u>4187 (Dr. Safeer Abbass)</u>

Reference of the request letter # ZLS/CE/0166

Dated: 14-11-2023

Dated: 08-11-2023

Tension Test Report (Page – 1/1)

Date of Test 15-11-2023 Gauge length 2 inches

Description MS Pipe Steel Strip Tensile Test as per ASTM A370

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm^2)	(kN)	(kN)	(MPa)	(MPa)	(in)	•`	
1	100	26.30x5.00	131.50	50.20	65.50	381.75	498.10	0.50	25.00	
2	100	26.30x5.00	131.50	49.70	65.00	377.95	494.30	0.50	25.00	
-	-	-	-	-	-	-	1	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	1	-	-	
-	-	-	-	-	-	-	1	-	-	
-	-	-	-	-	-	-	1	-	-	
			Only T	wo Sampl	es for Ten	sile Test				
				Ben	d Test					

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

To,

Chief Resident Engineer
UMDS Consultants
NCB Works / PICIIP-04 Road Upgradation Lot-01 Sahiwal.

Reference # CED/TFL 4188 (Dr. Ali Ahmed)

Reference of the request letter # UMDS – JV/SOS/CRE/204

Dated: 14-11-2023

Dated: 08-11-2023

Tension Test Report (Page -1/1)

Date of Test 15-11-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.381	3	0.378	0.11	0.112	4100	5020	82200	80720	100600	98900	1.00	12.5	я
2	0.371	3	0.373	0.11	0.109	4710	5350	94400	95230	107200	108200	0.80	10.0	Naveena Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Na
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							Bend T	`est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ictory								

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,

Resident Engineer ZEERUK –LOYA – MINHA Jv

Development of Islamabad Expressway PWD Underpasss to GT Road Including Bhander Bridge, Japan Road Underpass & Soan Bridge.

(Nizami Brothers)

Reference # CED/TFL <u>4190 (Dr. Safeer Abbass)</u>

Reference of the request letter # RE/FWO/P-N-5/23/178

Dated: 14-11-2023

Dated: 25-10-2023

Tension Test Report (Page -1/4)

Date of Test 15-11-2023 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield s clause	trength e (6.3)	stre	nking ngth e (6.2)	Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa	%	Rema
1	12.70 (1/2")	780.0	782.0	17900	175.60	19500	191.30	199	>3.50	8
2	12.70 (1/2")	780.0	782.0	17900	175.60	19500	191.30	198	>3.50	15
3	12.70 (1/2")	780.0	783.0	17900	175.60	19500	191.30	198	>3.50	27
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only three samples for Test

Note:

- 1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM A416a
- 2. Load versus percentage strain graphs are attached

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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

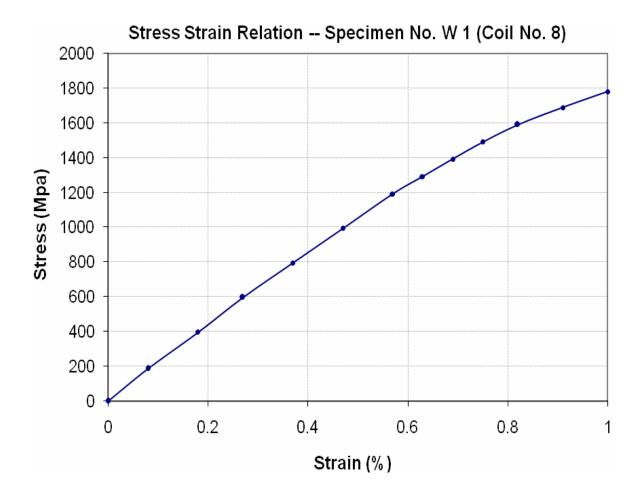
To,

Resident Engineer ZEERUK –LOYA – MINHA Jv

Development of Islamabad Expressway PWD Underpasss to GT Road Including Bhander Bridge, Japan Road Underpass & Soan Bridge. (Nizami Brothers)

Reference # CED/TFL <u>4190 (Dr. Safeer Abbass)</u>
Reference of the request letter # RE/FWO/P-N-5/23/178

Graph (Page -2/4)



I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 14-11-2023

Dated: 25-10-2023

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STRUCTURAL ENGINEERING DIVISION

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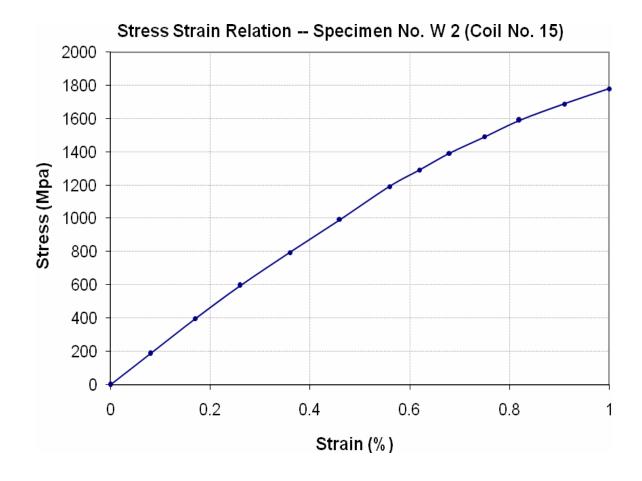
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Graph (Page -3/4)



I/C Testing Laboratoires UET Lahore, Pakistan.

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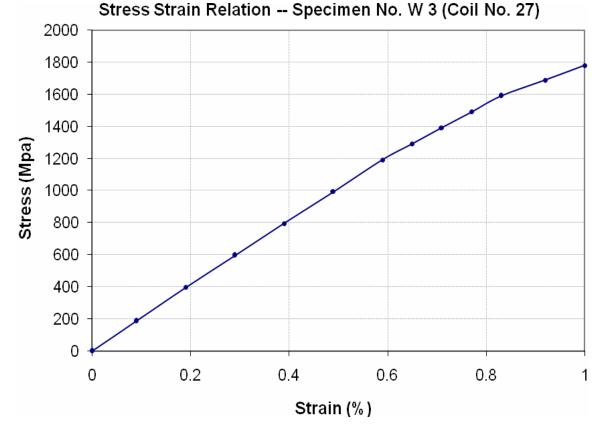
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Development of Islamabad Expressway PWD Underpasss to GT Road Including Bhander Bridge, Japan Road Underpass & Soan Bridge.

(Nizami Brothers)

Reference # CED/TFL 4190 (Dr. Safeer Abbass) Reference of the request letter # RE/FWO/P-N-5/23/178

Graph (Page -4/4)



I/C Testing Laboratoires **UET Lahore, Pakistan.**

Dated: 14-11-2023

Dated: 25-10-2023

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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 Carriageway from GT Road (Benzir Chowk) to Lahore-Sialkot Motorway (Wanndo Interchange) L= 15.20 km, District Gujranwala.

Reference # CED/TFL **4191** (Dr. Ali Ahmed)

Dated: 14-11-2023

Reference of the request letter # 103/EW/GRW/AR/Lab/33

Dated: 11-11-2023

Tension Test Report (Page -1/1)

Date of Test 15-11-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
<i>S</i> 2	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Ŗ
1	0.378	3	0.376	0.11	0.111	4080	5010	81800	80830	100400	99300	0.90	11.3	
2	0.380	3	0.377	0.11	0.112	3920	4960	78600	77370	99400	97900	1.10	13.8	Mughal Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		1	N	ote: on	ly two s	amples f	or tensile	and one	sample 1	for bend t	test	ı		1
							D 15	<u> </u>						
112	Bar Ben	1.77. 4.7	rı 1	1000 '	C 4: C		Bend T	est						

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

To,

Construction Manager Habib Rafiq Engineering (Pvt) Limited District One Sheikhupura.

Reference # CED/TFL 4192 (Dr. Ali Ahmed)
Reference of the request letter # HRL/DO/02/2023

Tension Test Report (Page -1/1)

Date of Test 15-11-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		ieter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	₩ E	R
1	0.370	3	0.372	0.11	0.109	3490	5120	70000	70790	102600	103900	1.20	15.0	el
2	0.372	3	0.373	0.11	0.109	3470	5120	69600	69990	102600	103300	1.50	18.8	Aziz Steel
1	-	-	-	-	-	-	-	-	-	-	-	-	-	Azi
1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	-	-	-	-	-	-	-	-	-	-	-	-	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend t	test	1		1
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	n 180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 14-11-2023

Dated: 14-11-2023

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,

Asst Dir Infra Defence Housing Authority, Gujranwala "Sector L"

Reference # CED/TFL 4194 (Dr. Ali Ahmed)

Reference of the request letter # 111/15/AD/RS/Lab/Sec L/549

Dated: 14-11-2023

Dated: 13-11-2023

Tension Test Report (Page -1/1)

Date of Test 15-11-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	2 '		(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.382	3	0.378	0.11	0.112	3670	4840	73600	72010	97000	95000	1.30	16.3	-
2	0.378	3	0.376	0.11	0.111	3640	4790	73000	72150	96000	95000	1.40	17.5	Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	FF
1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		T	No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1		ı
ш2	D D	1 T (7	Γ1	1000	G - 4i - C	-4	Bend T	est						
#3	Bar Ben	d Test	I'hrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer Metroplan-Asian Jv Establishment of Tertiary Care Hospital, Nishtar-II, Multan. (MIR # 07, Dated 13-05-2023)

Reference # CED/TFL <u>4196 (Dr. Ali Ahmed)</u> Dated: 15-11-2023 Reference of the request letter # Metroplan-Asian JV-Nishtar-II-RE-1783-2023Dated: 13-06-2023

Tension Test Report (Page -1/1)

Date of Test 15-11-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
<i>S</i> 2	(lbs/ft)	Nominal	Actual	Nominal			(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.409	10	9.93	0.12	0.120	4180	5500	76794	76720	101044	101000	1.20	15.0	ar
2	0.409	10	9.93	0.12	0.120	4030	5320	74038	73970	97737	97700	1.20	15.0	Gujjar Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	S
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1	ı	
101	nm Bar	Rend T	est Thro	nigh 18	0° is Sa	tisfactory	Bend T	est						
101	ınıı Dai .	Dena 1	<u> </u>	Jugii 10	13 5a	tistactor y								

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,

Manager Civil Shangrila Foods (Private) Limited Karachi

Reference # CED/TFL <u>4197 (Dr. Ali Ahmed)</u>
Reference of the request letter # Nil

Tension Test Report (Page -1/1)

Date of Test 15-11-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress osi)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.381	3	0.377	0.11	0.112	3640	4940	73000	71690	99000	97300	1.20	15.0	
2	0.380	3	0.377	0.11	0.112	3640	4940	73000	71840	99000	97500	1.30	16.3	
ı	ı	-	ı	ı	-	1	-	-	-	-	-	1	-	
ı	ı	-	ı	ı	-	ı	-	-	-	-	-	ı	-	
,	-	-	1	1	-	-	-	-	-	-	-	1	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		ı	No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
ш2	D D	1 T (7	Γ1	1000	G-4i-C	-4	Bend T	est						
#3	Bar Ben	d Test	I hrough	1 180° 18	s Satisfa	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 15-11-2023

Dated: 15-11-2023

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer Oil Trade (Private) Limited. 4 No of Silo Project.

Reference # CED/TFL <u>4198 (Dr. Safeer Abbass)</u>
Reference of the request letter # Nil

Dated: 15-11-2023 Dated: 15-11-2023

Tension Test Report (Page -1/1)

Date of Test 15-11-2023
Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	0.413	10	9.99	0.12	0.121	3840	5400	70547	69710	99207	98100	1.30	16.3	
2	0.412	10	9.97	0.12	0.121	3790	5300	69629	69060	97370	96600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est						
101	nm Dia	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	ctory							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Project Manager HIGH-Q

Construction of HIGH-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL 4209 (Dr. Safeer Abbas)

Reference of the request letter # QC/HQ/CIVIL/157

Dated: 20-11-2023

Dated: 17-11-2023

Tension Test Report (Page -1/1)

Date of Test 20-11-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (mm)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.407	10	0.391	0.11	0.120	3840	5120	77000	70670	102600	94300	1.10	13.8	
2	0.409	10	0.391	0.11	0.120	3980	5160	79800	72930	103400	94600	1.20	15.0	
1	-	-		-	-	-	-	-	-	_	-	-	-	
	-	-	1	-	-	-	-	-	-	_	-	-	-	
1	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	_	_	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend t	est	'		
Bend Test														
Dia	10mm	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	ctory							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,

Assistant Engineer,

UET, Lahore.

CONSTRUCTION Of "Construction of RCC Slab for the Entrance in H-Type Quarter,

UET LAHORE

Reference # CED/TFL <u>4217 (Dr. Rizwan Riaz)</u> Reference of the request letter # B&W/AEN.C/3395

Tension Test Report (Page -1/1)

Date of Test 20-11-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		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)	% E	Re
1	0.407	3	0.390	0.11	0.120	4180	5480	83800	77070	109800	101100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	1	-	ı	ı	-	-	-	-	-	-	1	-	-	
,	-	-	1	1	-	-	-	-	-	-	-	1	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		ı	N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est	Γ		
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 20-11-2023

Dated: 20-11-2023

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

I/C Testing Laboratoires UET Lahore, Pakistan.

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