STRUCTURAL ENGINEERING DIVISION

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

To,
Manager Construction
Orient Electronics (Pvt) Ltd
Construction of Orient Square Hotel Tower Johar Town

Reference # CED/TFL **36964** (Dr. Ali Ahmed) Dated: 30-08-2021
Reference of the request letter # 38-Letter No. OSH-SO-UET-KamranSteelTest-300821Dated: 30-08-2021

Tension Test Report (Page -1/1)

Date of Test 01-09-2021
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	4.278	10	1.265	1.27	1.257	41800	58200	72600	73270	101100	102100	1.50	18.8	
2	4.282	10	1.266	1.27	1.259	43000	58800	74700	75300	102100	103000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180º is Satisfactory														

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

To,
Sub Divisional Officer
Highway Sub Division
Mianwali
(Widening / Improvement of Road from Main Kalabagh Road to Swance, Swance to Ghundi Length 14 km District Mianwali (Part-B) from km 5.00 to 14.00 Length 9.00 km)

Reference # CED/TFL **36972** (Dr. Ali Ahmed) Dated: 31-08-2021
Reference of the request letter # 329/SDO/Mwi Dated: 05-07-2021

Tension Test Report (Page -1/1)

Date of Test 01-09-2021
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	0.375	3	0.375	0.11	0.110	2700	4000	54100	53960	80200	80000	1.90	23.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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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 Sector-E (Extn- II), DHA Phase-VI) (M/s DHA-C)

Reference # CED/TFL **36973** (Dr. Ali Ahmed) Dated: 31-08-2021
Reference of the request letter # 408/241/E/Lab/128/171 Dated: 30-08-2021

Tension Test Report (Page -1/1)

Date of Test 01-09-2021
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight	Diameter/ size		Area (mm^2)		Yield load	Breaking Load	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
	(Kg/m)	Nominal (in)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	
1	0.100	5/32	4.03	12.82	12.76	-------	840	-------	-------	643	646	
2	0.106	5/32	4.14	12.82	13.44	-------	1000	-------	-------	765	730	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test												
Bend Test												
5/32" Dia Bar Bend Test Through 180º is Satisfactory												

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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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 Structure Work Sector-4 DHA Ph-XI Rahbar) – (M/s DHA-C)

Reference # CED/TFL **36974** (Dr. Ali Ahmed) Dated: 31-08-2021
Reference of the request letter # 408/241/E/Lab/127/13 Dated: 30-08-2021

Tension Test Report (Page -1/1)

Date of Test 01-09-2021
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	4.200	10	1.254	1.27	1.235	40800	57200	70900	72850	99300	102200	1.60	20.0	Kamran Steel
2	4.233	10	1.259	1.27	1.244	30000	42400	52100	53150	73600	75200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
General Manager (Pole Plant)
Potential Engineers (Pvt.) Limited
PCC Pole Plant Sadiqabad

Reference # CED/TFL **36975** (Dr. Ali Ahmed) Dated: 31-08-2021
Reference of the request letter # PCP/HTLT/SPUN/SDK/228 Dated: 30-08-2021

Tension Test Report (Page – 1/1)

Date of Test 01-09-2021
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	440.0	10000	98.10	11300	110.85	>3.50	xx
2	9.53 (3/8")	432.0	439.0	10200	100.06	11300	110.85	>3.50	xx
3	11.11 (7/16")	582.0	593.0	14100	138.32	15400	151.07	>3.50	xx
4	11.11 (7/16")	582.0	594.0	13800	135.38	15400	151.07	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only four samples for 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,
Project Manager
Zaheer Associates
AR Developers & Town Planers
Al-Rehman Garden Phase – II
Sharkpur Road, Lahore

Reference # CED/TFL **36976** (Dr. Ali Ahmed) Dated: 31-08-2021
Reference of the request letter # Z.A/A.R/25-22 Dated: 25-08-2021

Tension Test Report (Page -1/1)

Date of Test 01-09-2021
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	0.382	3	0.378	0.11	0.112	3600	4700	72200	70700	94200	92300	1.20	15.0	
2	0.380	3	0.377	0.11	0.112	3600	4800	72200	71060	96200	94800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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.

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,
Manager Construction
Allied Bank
Construction of ABL B/O PIA Employees Cooperative Housing Society, Lahore

Reference # CED/TFL **36977** (Dr. Ali Ahmed) Dated: 31-08-2021
Reference of the request letter # HO/ENGG.CELL/AI/2021/351 Dated: 30-08-2021

Tension Test Report (Page -1/1)

Date of Test 01-09-2021
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	0.390	3	0.382	0.11	0.115	3600	5000	72200	69260	100200	96200	1.10	13.8	Afco Steel
2	0.373	3	0.374	0.11	0.110	3400	4700	68200	68320	94200	94500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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,
SE (WASO),
GINUM
Pakistan Atomic Energy Commission

Reference # CED/TFL **36978** (Dr. Ali Ahmed) Dated: 31-08-2021
Reference of the request letter # Nil Dated: 27-08-2021

Tension Test Report (Page -1/1)

Date of Test 01-09-2021
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	0.377	3	0.376	0.11	0.111	3700	4900	74200	73520	98200	97400	1.10	13.8	
2	0.387	3	0.380	0.11	0.114	3900	5100	78200	75640	102200	99000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,
Project Support Officer
UNOPS Pakistan
Pedestrian suspension Bridges in Kalam, District Swat

Reference # CED/TFL **36979** (Dr. Ali Ahmed) Dated: 31-08-2021
Reference of the request letter # UNOPS/UET/21-1 Dated: 31-08-2021

Tension Test Report (Page – 1/1)

Date of Test 01-09-2021
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	**6**	**0.133**	**2300**	
2	**13**	**0.565**	**9100**	
3	**16**	**0.989**	**16000**	
4	**19**	**1.265**	**17800**	
5	**25**	**2.244**	**30300**	
Only five samples for Test				

I/C Testing Laboratoires
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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,
GM Projects
Ittefaq Building Solutions (Pvt) Ltd
Fouji Fresh nFreeze at Sahiwal

Reference # CED/TFL **36982** (Dr. Asad Ali) Dated: 01-09-2021
Reference of the request letter # IBS/CED/FFF-02 Dated: 01-09-2021

Tension Test Report (Page -1/1)

Date of Test 01-09-2021
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	0.380	3	0.377	0.11	0.112	3360	4790	67400	66280	96000	94500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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