



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

To,
 Lead Civil
 StarchPack (private) Limited
 StrachPack Greenfield Project at Kasur.

Reference # CED/TFL **1621** (Dr. Rizwan Azam)
 Reference of the request letter # Nil

Dated: 28-06-2022
 Dated: 28-06-2022

Tension Test Report (Page -1/1)

Date of Test 04-07-2022
 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	0.420	10	10.07	0.12	0.123	4500	5500	82673	80370	101044	98300	0.80	10.0	
2	0.417	10	10.03	0.12	0.123	4300	5400	78998	77350	99207	97200	0.90	11.3	
3	4.237	32	31.98	1.25	1.245	41600	53200	73369	73630	93828	94200	1.50	18.8	
4	4.228	32	31.95	1.25	1.243	41400	53200	73016	73420	93828	94400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
M/S Lahore Cable and Engineering (Pvt) Limited
Lahore

Reference # CED/TFL **1624** (Dr. Rizwan Azam)
Reference of the request letter # LCE/INW-0777-22

Dated: 29-06-2022

Dated: 29-06-2022

Tension Test Report (Page – 1/1)

Date of Test 04-07-2021
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	444.0	8800	86.33	11200	109.87	>3.50	xx
2	12.70 (1/2")	775.0	765.0	-----	-----	17500	171.68	<3.50 Not ok	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only two samples for Test

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To,
 Deputy General Manager Projects
 Habib Rafiq Engineering (Pvt.) Limited
 Construction of Sky Gardens Tower, Lahore

Reference # CED/TFL **1632** (Dr. Rizwan Azam)
 Reference of the request letter # HRLE/SKG/2022/035

Dated: 29-06-2022
 Dated: 29-06-2022

Tension Test Report (Page -1/1)

Date of Test 04-07-2022
 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	4.134	32	31.59	1.25	1.215	34000	53600	59965	61670	94533	97300	1.60	20.0	Afco Steel
2	4.186	32	31.79	1.25	1.231	34200	53800	60318	61260	94886	96400	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two sample for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 Construction of Bridge at Zero Line Kartarpur Sahib Corridor

Reference # CED/TFL **1637** (Dr. Rizwan Azam)
 Reference of the request letter # SA-472/021/TA/01/042

Dated: 30-06-2022
 Dated: 30-06-2022

Tension Test Report (Page -1/1)

Date of Test 04-07-2022
 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	4.124	10	1.242	1.27	1.212	37400	53400	65000	68000	92700	97100	1.50	18.8	FF Steel
2	4.151	10	1.246	1.27	1.220	37800	53600	65600	68280	93100	96900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two sample for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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To,
M/S Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **1647** (Dr. Rizwan Azam)
Reference of the request letter # VECO/2022/0630/7014

Dated: 01-07-2022

Dated: 30-06-2022

Tension Test Report (Page – 1/1)

Date of Test 04-07-2021
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	433.0	10000	98.10	10900	106.93	>3.50	xx
2	11.11 (7/16")	582.0	586.0	13200	129.49	14300	140.28	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only two samples for Test									

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To,
M/S S.A Sheikh & Co.
Lahore

Reference # CED/TFL **1650** (Dr. Rizwan Azam)
Reference of the request letter # SASheikh/ABWBProjects/5

Dated: 01-07-2022

Dated: 01-07-2022

Tension Test Report (Page -1/1)

Date of Test 04-07-2022
Gauge length 8 inches
Description Plain Steel Bar Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (inch)	Actual (mm)	Nominal	Actual							
1	6.189	1.25	31.68	-----	788.4	31000	50000	386	622	2.00	25.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratories
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To,
M/S Sunrays Textile Mills Ltd
Muzaffargarh

Reference # CED/TFL **1654** (Dr. Mazhar Saleem)
Reference of the request letter # Nil

Dated: 04-07-2022
Dated: 02-07-2022

Tension Test Report (Page -1/1)

Date of Test 04-07-2022
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	0.397	10	9.80	0.12	0.117	4200	5100	77161	79250	93696	96300	0.90	11.3	
2	0.396	10	9.77	0.12	0.116	3900	5000	71650	73940	91858	94800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Altec International
Lahore

Reference # CED/TFL **1655** (Dr. Mazhar Saleem)
Reference of the request letter # Nil

Dated: 04-07-2022
Dated: 01-07-2022

Tension Test Report (Page – 1/1)

Date of Test 04-07-2022
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	8.3	0.25	4400	New
2	8.3	0.26	5500	Old
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only two samples for Test				

I/C Testing Laboratoires
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To,
M/S Lahore Cable and Engineering (Pvt) Limited
Lahore

Reference # CED/TFL **1657** (Dr. Rizwan Azam)
Reference of the request letter # LCE/7M-002-22

Dated: 04-07-2022

Dated: 04-07-2022

Tension Test Report (Page – 1/1)

Date of Test 04-07-2021
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	444.0	10000	98.10	10800	105.95	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
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To,
 Resident Engineer
 Orbit Developers Private Limited
 The Springs, Gulberg Lahore

Reference # CED/TFL **1658** (Dr. Asif Hameed)
 Reference of the request letter # Nil

Dated: 04-07-2022
 Dated: 04-07-2022

Tension Test Report (Page -1/1)

Date of Test 04-07-2022
 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	0.373	3	0.374	0.11	0.110	3590	4980	72000	72130	99800	100100	1.10	13.8	
2	0.371	3	0.373	0.11	0.109	3520	5020	70600	71140	100600	101500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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