STRUCTURAL ENGINEERING DIVISION

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

To,

XEN
Garrison Engineer (Army) – II
Lahore Cantt
((CA No. ENC-A-22/2024, "Const of 8 x E Type Flats (G+3) at HQ 11 Div Lahore"

Reference # CED/TFL **5573** (Dr. Usman Akmal) Dated: 28-08-2024
Reference of the request letter # 6003/146/E-6 Dated: 14-05-2024

Tension Test Report (Page -1/1)

Date of Test 03-09-2024
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	0.352	3/8	0.363	0.11	0.103	3330	4610	66800	70950	92400	98300	1.30	16.3	
2	0.339	3/8	0.356	0.11	0.100	3360	4790	67400	74420	96000	106100	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:
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

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 Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **5590** (Dr. M Rizwan Riaz) Dated: 02-09-2024
Reference of the request letter # VECO/2024/0515/ Dated: 02-09-2024

Tension Test Report (Page – 1/1)

Date of Test 03-09-2024
Gauge length 600 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")	430.0	432.0	10300	101.04	11100	108.89	>3.50	2
2	9.53 (3/8")	430.0	432.0	10000	98.10	11000	107.91	>3.50	3
3	9.53 (3/8")	430.0	432.0	10100	99.08	11100	108.89	>3.50	5
3	9.53 (3/8")	430.0	431.0	10200	100.06	11100	108.89	>3.50	6
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

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,

General Manager
Jafris and Steele (Private) Limited.
Construction of Al-Munawar Residential.

Reference # CED/TFL **5591** (Dr. Usman Akmal) Dated: 02-09-2024
Reference of the request letter # Js80 Dated: 02-09-2024

Tension Test Report (Page # 1/1)

Date of Test 03-09-2024
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	0.393	10	9.74	0.12	0.116	4030	5250	74038	76850	96451	100200	1.20	15.0	
2	0.409	10	9.94	0.12	0.120	4910	5930	90205	89940	108944	108700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia 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,

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

Reference # CED/TFL **5593** (Dr. Usman Akmal) Dated: 02-09-2024
Reference of the request letter # HRLE/SKG/2024/Kamran/165 Dated: 02-09-2024

Tension Test Report (Page -1/1)

Date of Test 03-09-2024
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	4.205	32	31.86	1.25	1.236	39600	53600	69842	70610	94533	95600	1.30	16.3	Kamran Steel
2	4.239	32	31.99	1.25	1.246	37800	52400	66667	66870	92417	92700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

32mm Dia 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 Manager
Jilani Poly Industries (Pvt) Ltd.
Construction of Jilani Poly-2 Trap Extension Sheikhupura.

Reference # CED/TFL **5598** (Dr. Usman Akmal) Dated: 02-09-2024
Reference of the request letter # JP-2/UET/2024/S-002 Dated: 30-08-2024

Tension Test Report (Page -1/1)

Date of Test 03-09-2024
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	0.379	3	0.376	0.11	0.111	3940	5680	79000	78040	113900	112500	0.80	10.0	SJ Steel
2	0.376	3	0.375	0.11	0.110	3940	5660	79000	78630	113500	113000	0.80	10.0	
3	0.363	3	0.368	0.11	0.107	3470	4960	69600	71720	99400	102600	1.20	15.0	Karachi Steel
4	0.371	3	0.373	0.11	0.109	3490	5070	70000	70500	101600	102500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only four samples for tensile and two samples for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

#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.
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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 Jameel
40-C-III
Gulberg III, Lahore

Reference # CED/TFL **5599** (Dr. Usman Akmal) Dated: 02-09-2024
Reference of the request letter # Nil Dated: 02-09-2024

Tension Test Report (Page -1/1)

Date of Test 03-09-2024
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	0.365	3	0.369	0.11	0.107	3360	5010	67400	69070	100400	103000	1.10	13.8	
2	0.363	3	0.369	0.11	0.107	3430	5100	68800	70810	102200	105300	1.30	16.3	
3	0.363	3	0.369	0.11	0.107	3310	5010	66400	68390	100400	103600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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:
1- You can See your reports On Internet in the following web site
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2. The above results pertain to sample /samples supplied to this laboratory.
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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 Alliance Engineers & Contractors
Lahore
(Construction of The HIVE Commercial Building at Lahore.)

Reference # CED/TFL **5600, 5601** (Dr. Usman Akmal) Dated: 02-09-2024
Reference of the request letter # 00200902024003 Dated: 02-09-2024

Tension Test Report (Page -1/1)

Date of Test 03-09-2024
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	0.376	3/8	0.375	0.11	0.111	3520	4960	70600	70110	99400	98800	1.10	13.8	
2	0.376	3/8	0.375	0.11	0.110	3490	4940	70000	69670	99000	98700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,

Sub Divisional Officer
Buildings Sub Division No. 3
Faisalabad
(Construction of Multi Storied Courts / Block in The Premises of District Courts Complex at Faisalabad. (Head Quarter))

Reference # CED/TFL **5602** (Dr. Usman Akmal) Dated: 02-09-2024
Reference of the request letter # 104 Dated: 02-08-2024

Tension Test Report (Page -1/1)

Date of Test 03-09-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.385	3/8	0.380	0.11	0.113	4080	5370	81800	79460	107600	104600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Resident Engineer
NESPAK – TurkPak Jv
Establishment of 200 Bedded Mother and Child Hospital and Nursing College at District Bahawalnagar.

Reference # CED/TFL **5603** (Dr. Usman Akmal) Dated: 03-09-2024
Reference of the request letter # 4460/13/MIAC/04/391 Dated: 02-09-2024

Tension Test Report (Page -1/1)

Date of Test 03-09-2024
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	3590	4760	72000	71900	95400	95400	1.40	17.5	
2	0.375	3	0.374	0.11	0.110	3570	4760	71600	71450	95400	95300	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.

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,

Senior Resident Engineer
QA/QC Department
Garden City, Bahria Town Rawalpindi
"Entrance Shed, Green Valley, Paradise Mall Phase - 4"
(M/s Construct)

Reference # CED/TFL **5604** (Dr. Ali Ahmed) Dated: 03-09-2024
Reference of the request letter # BT/QC/1900 Dated: 29-08-2024

Tension Test Report

Date of Test 03-09-2024
Gauge length 2 inches
Description MS Prefab Material Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Prefab Material	25.60x7.70	197.12	6300	9300	314	463	0.80	40.00	
2		25.10x12.00	301.20	9300	14100	303	459	0.90	45.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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,

Umar Zamin
Noshehra
Turlandi Cable Car.

Reference # CED/TFL **5606** (Dr. Ali Ahmed) Dated: 03-09-2024
Reference of the request letter # Nil Dated: 03-09-2024

Tension Test Report (Page – 1/1)

Date of Test 03-09-2024
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	**26**	**3.18**	**9600**	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

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,

Engineer's Representative
NESPAK - TurkPak JV
Construction of Green Building for EMC, EPD and Allied New Entities Established under PGDP (DLI-2, PGDP) Lahore

Reference # CED/TFL **5609** (Dr. Ali Ahmed) Dated: 03-09-2024
Reference of the request letter # 4731/MAA/03/89 Dated: 03-09-2024

Tension Test Report (Page -1/1)

Date of Test 03-09-2023
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	3200	4900	64200	63810	98200	97800	1.30	16.3	Markhor
2	0.375	3	0.375	0.11	0.110	3100	4900	62200	61980	98200	98000	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.

Note:
1- You can See your reports On Internet in the following web site
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3- Sealed sample / Unsealed sample / Marked sample/Signed Samples