



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 Building Standards
Lahore
(Construction of Residential Building in Gulberg, Lahore)

Reference # CED/TFL 37349 (Dr. Rizwan Azam)
Reference of the request letter # GT/LTR/211110-115

Dated: 11-11-2021
Dated: 10-11-2021

Tension Test Report (Page -1/1)

Date of Test 15-11-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.383	3	0.379	0.11	0.113	4200	5100	84200	82210	102200	99900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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,
 Resident Engineer
 NESPAK
 Development of Infrastructure in LDA City, Lahore (Package 3 of Development Area – 1)
 (Strom Water Drainage)

Reference # CED/TFL **37353** (Dr. Rizwan Azam)
 Reference of the request letter # 4047/13/SA/04-KRC/219

Dated: 11-11-2021
 Dated: 04-11-2021

Tension Test Report (Page -1/1)

Date of Test 15-11-2021
 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	0.385	3	0.380	0.11	0.113	3700	5500	74200	72080	110200	107200	1.30	16.3	SJ Steel
2	0.385	3	0.380	0.11	0.113	3800	5500	76200	73930	110200	107100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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
 Republic Engineering Corporation (Pvt) Ltd
 Construction of Alpha Home Apartments (Block-C) at Beaconhouse Estate Jati Umra Road off Raiwind Road Lahore
 Reference # CED/TFL **37354** (Dr. Asif Hameed)
 Reference of the request letter # AHA-18

Dated: 11-11-2021
 Dated: 10-11-2021

Tension Test Report (Page -1/1)

Date of Test 15-11-2021
 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	3300	4600	66200	66290	92200	92400	1.40	17.5	
2	0.370	3	0.372	0.11	0.109	3200	4600	64200	64780	92200	93200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Zeeshan Elahi (Site Supervisor)

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
 Engineering Consultancy Services Punjab (Pct) Ltd
 Infrastructure Development and Construction of Affordable Housing Unit at Moza Rakh Paji
 Tehsil Raiwind, District Lahore
 (Mughal Steel)

Reference # CED/TFL **37355** (Dr. Rizwan Azam)
 Reference of the request letter # ECSP/RE/LH/04

Dated: 11-11-2021
 Dated: 12-10-2021

Tension Test Report (Page -1/1)

Date of Test 15-11-2021
 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	Grade
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.415	3	0.394	0.11	0.122	3400	5000	68200	61470	100200	90400	1.70	21.3	40
2	0.414	3	0.393	0.11	0.122	3400	5000	68200	61650	100200	90700	1.60	20.0	
3	0.412	3	0.393	0.11	0.121	4500	5500	90200	81900	110200	100100	1.00	12.5	60
4	0.412	3	0.393	0.11	0.121	4200	5300	84200	76430	106200	96500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
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,
 Manager
 Nam Associates
 MCB Bank, Town Ship

Reference # CED/TFL 37357 (Dr. Rizwan Azam)
 Reference of the request letter # NAM-424/5

Dated: 12-11-2021
 Dated: 12-11-2021

Tension Test Report (Page -1/1)

Date of Test 15-11-2021
 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	0.371	3	0.372	0.11	0.109	3400	5000	68200	68790	100200	101200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
M/S Munir Industry (Private) Limited
Lahore

Reference # CED/TFL **37359** (Dr. Rizwan Azam)
Reference of the request letter # C.C.PVC/Gwd/03

Dated: 12-11-2021

Dated: 12-11-2021

Tension Test Report (Page – 1/1)

Date of Test 15-11-2021

Description PVC Wire Breaking Load Test (Wire With Coating)

Sr. No.	Nominal Diameter	Measured Diameter	Breaking Load	Remark
	(mm)	(mm)	(kg)	
1	4.70	4.75	240	
-	-	-		
-	-	-		
-	-	-		-
-	-	-		-
-	-	-		-
-	-	-		
Only One Sample for Test				

I/C Testing Laboratories
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
 CCECC-MATRACON-HABIB Joint Venture
 Re-Construction & Up-gradation of Main Runway (18L/36R) at Allama Iqbal International
 Airport (AIIAP), Lahore
 (Batala Steel)

Reference # CED/TFL **37360** (Engr. Rizwan Riaz) Dated: 12-11-2021
 Reference of the request letter # AIIAP/CCECC-MATRACON-HABIB Jv/2021/755
Dated: 10-11-2021

Tension Test Report (Page -1/2)

Date of Test 15-11-2021
 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	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.410	10	9.95	0.12	0.120	3900	5300	71650	71380	97370	97000	1.30	16.3	116
2	0.407	10	9.92	0.12	0.120	3900	5300	71650	71790	97370	97600	1.00	12.5	144
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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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
 CCECC-MATRACON-HABIB Joint Venture
 Re-Construction & Up-gradation of Main Runway (18L/36R) at Allama Iqbal International
 Airport (AIIAP), Lahore
 (Batala Steel)

Reference # CED/TFL **37360** (Engr. Rizwan Riaz)

Dated: 12-11-2021

Reference of the request letter # AIIAP/CCECC-MATRACON-HABIB Jv/2021/751

Dated: 10-11-2021

Tension Test Report (Page -2/2)

Date of Test 15-11-2021

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.403	10	9.87	0.12	0.119	3700	5400	67975	68800	99207	100500	1.00	12.5	46
2	0.409	10	9.93	0.12	0.120	3600	5300	66138	66040	97370	97300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend 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,
 Construction Manager
 Deevar Developers Pvt. Ltd
 Construction of Zameen Opal, Plot No. 16, Sector-A, Land Breeze Housing Society, Raiwind Road, Lahore
 Reference # CED/TFL 37361 (Dr. Ali Ahmed) Dated: 12-11-2021
 Reference of the request letter # ZD/ZO/L/039 Dated: 12-11-2021

Tension Test Report (Page -1/1)

Date of Test 15-11-2021
 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	0.380	3	0.377	0.11	0.112	3500	5000	70200	69090	100200	98700	1.00	12.5	
2	0.374	3	0.374	0.11	0.110	3400	4700	68200	68160	94200	94300	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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-2
 ACES (Pvt) Ltd
 Sector-V DHA Multan

Reference # CED/TFL 37363 (Dr. Rizwan Azam)
 Reference of the request letter # ACES/DEV/CONSPLUS/42

Dated: 12-11-2021
 Dated: 11-11-2021

Tension Test Report (Page -1/2)

Date of Test 15-11-2021
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.260	6	6.49	32.30	33.08	1600	2000	486	474	607	593	Ali Brother
2	0.273	6	6.66	32.30	34.84	1600	2300	486	451	699	648	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test												
Bend Test												
6mm Dia Bar Bend Test Through 180° is Satisfactory												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
 Resident Engineer-2
 ACES (Pvt) Ltd
 Sector-V DHA Multan

Reference # CED/TFL **37363** (Dr. Rizwan Azam)
 Reference of the request letter # ACES/DEV/CONSPLUS/43

Dated: 12-11-2021
 Dated: 11-11-2021

Tension Test Report (Page -2/2)

Date of Test 15-11-2021
 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	0.379	10	9.56	0.12	0.111	3900	4800	71650	77230	88184	95100	0.90	11.3	Mughal Steel
2	0.377	10	9.54	0.12	0.111	3900	4900	71650	77550	90021	97500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° 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
 Dupak Properties (Pvt) Ltd
 Defence view Apartments at Shanghai Road Lahore

Reference # CED/TFL **37366** (Dr. Mazhar Saleem)
 Reference of the request letter # Dupak/DVA/056

Dated: 15-11-2021
 Dated: 15-11-2021

Tension Test Report (Page -1/1)

Date of Test 15-11-2021
 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	0.375	3	0.375	0.11	0.110	3500	4800	70200	69940	96200	96000	1.20	15.0	
2	0.373	3	0.374	0.11	0.110	3300	4700	66200	66350	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 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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