



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

Ref: CED/TFL/09/35486

Dated: 09-10-2020

Dated of Test: 15-10-2020

To
Municipal Officer
(Infrastructure & Services)
Municipal Corporation
Burewala
(Rehabilitation of Soling & Resoling and Sewerage Line Yousaf Block and Sadiq Town Burewala)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. 1113/1/MC(B), dated 14.09.2020 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.77	7.30	1.34	1.00	2.03	6300	12400	1909	3757

I/C Testing Laboratories
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,
 RE, VO-2 (M-2)
 ACC-PRIME Jv
 Construction of Additional Lanes on M-2 from Ravi Toll Plaza Faizpur Interchange Lahore
 (Admin Building)

Reference # CED/TFL **35491** (Dr. M Rizwan Riaz)
 Reference of the request letter # RE/VO2-M2/LAB/383

Dated: 12-10-2020
 Dated: 12-10-2020

Tension Test Report (Page – 1/1)

Date of Test 15-10-2020
 Gauge length 2 inches
 Description Aluminum Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Aluminum	24.70x2.00	49.40	5.14	6.95	104.05	140.69	0.30	15.00	
2		24.70x2.00	49.40	5.68	7.01	114.98	141.90	0.30	15.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Ali Zaman (Pvt) Limited
Lahore

Reference # CED/TFL **35504** (Dr. M Rizwan Riaz)
Reference of the request letter # azl-438-2020

Dated: 14-10-2020
Dated: 14-10-2020

Tension Test Report (Page – 1/1)

Date of Test 15-10-2020
Gauge length 2 inches
Description M.S Sheet 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	3	22.10x2.90	64.09	2300	3200	352.05	489.81	0.50	25.00	W/P
2	3	22.10x2.90	64.09	1700	2900	260.21	443.89	0.50	25.00	
3	3	20.70x2.90	60.03	1800	2700	294.15	441.23	0.40	20.00	M/K
4	3	21.00x2.90	60.90	1700	2700	273.84	434.93	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works at Sector-P, Pkg-1, DHA Ph-IX Prism (M/s DHA-C))

Reference # CED/TFL **35506** (Dr. Usman Akmal)
Reference of the request letter # 408/241/E/Lab/1004/160

Dated: 14-10-2020
Dated: 09-10-2020

Tension Test Report (Page -1/1)

Date of Test 15-10-2020
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	0.355	3	0.365	0.11	0.104	3300	4500	66200	69640	90200	95000	1.30	16.3	FF Steel
2	0.362	3	0.368	0.11	0.106	3100	4500	62200	64210	90200	93200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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Ref: CED/TFL/10/35507

Dated: 14-10-2020

Dated of Test: 15-10-2020

To
The Engineer (SFMKBIC - D. G Khan)
Infrastructure Development Authority of The Punjab
Establishment of SFMKB Institute of Cardiology, D.G Khan

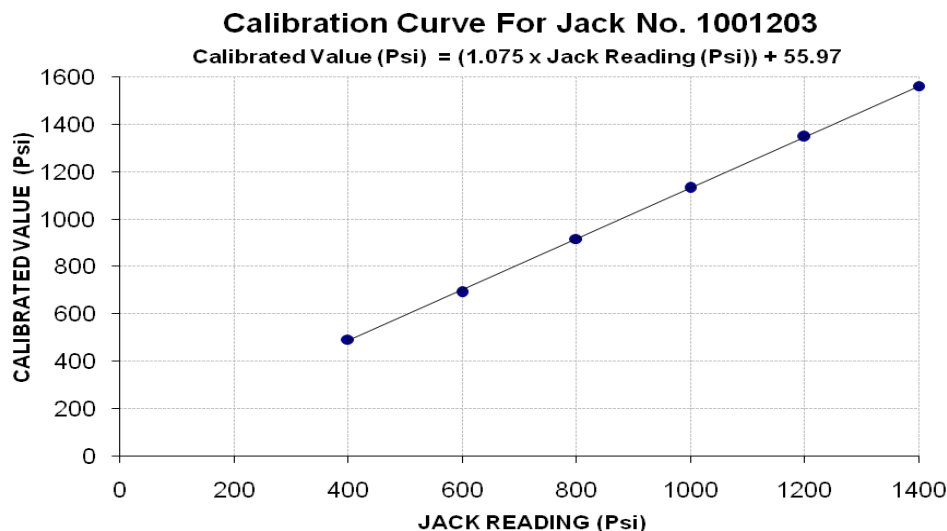
Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE
(MARK: TFL/10/35507) (Page # 1/1)

Reference to your Letter No. PD(DGKIC)/IDAP/2020/10760, dated: 13/10/2020 on the subject cited above. One Hydraulic No. H.J.N 1001203 with Pressure Gauge No. KL 1.6 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 10000 (Psi)
Calibrated Range : Zero - 1400 (Psi)

Hydraulic Jack Reading (Psi)	400	600	800	1000	1200	1400
Calibrated Load (kg)	58600	82000	108800	134400	160000	185400
Calibrated Pressure (Psi)	493.88	691.10	916.97	1132.73	1348.48	1562.55

The Ram Area of Jack = 261.58 in²



I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/10/35508

Dated: 14-10-2020

Dated: 15-10-2020

To,
Commanding Officer
104 Engineer Battalion
(Star Fighters) Frontier Works Organization
Improvement, Up gradation and widening of Jaglot - Skardu (S-1) Road (164km)

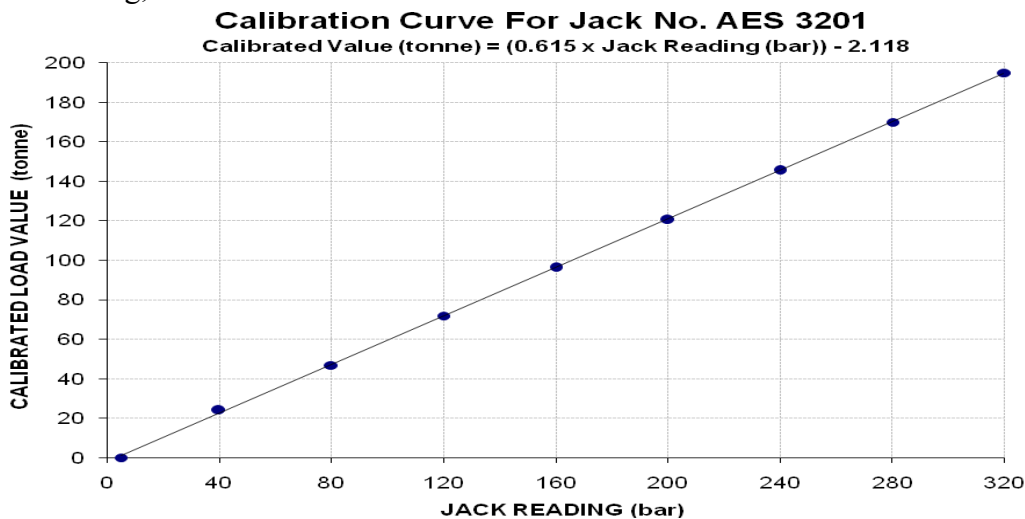
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/10/35508) (Page -1/2)

Reference to your Letter No. 607/JSR/Svy-Proj, Dated: 19/08/2020 on the subject cited above. One Hydraulic Jack (Jack No 3201, Gauge No. AES-3201) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 320 (bar)

Hydraulic Jack Reading (bar)	5	40	80	120	160	200	240	280	320	
Calibrated Load	(kg)	0	24000	46800	71800	96200	120400	145400	170000	195000
	Tonne	0	24.00	46.80	71.80	96.20	120.40	145.40	170.00	195.00
Calibrated Pressure (bar)	0	39.09	76.23	116.95	156.69	196.11	236.83	276.90	317.62	

1 Tonne = 1000 kg, The Ram Area of Jack = 602.09 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/10/35508

Dated: 14-10-2020

Dated: 15-10-2020

To,
Commanding Officer
104 Engineer Battalion
(Star Fighters) Frontier Works Organization
Improvement, Up gradation and widening of Jaglot - Skardu (S-1) Road (164km)

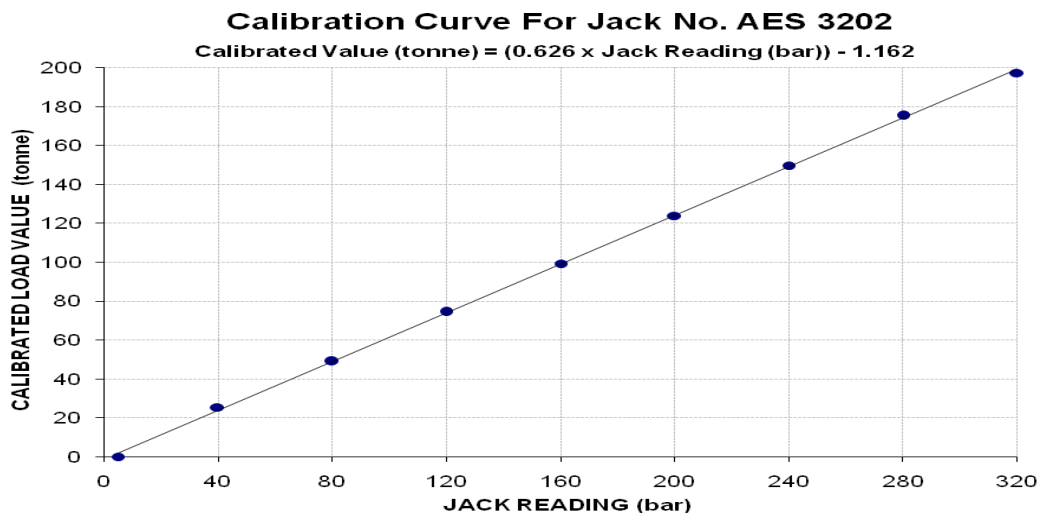
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/10/35508) (Page -2/2)

Reference to your Letter No. 607/JSR/Svy-Proj, Dated: 19/08/2020 on the subject cited above. One Hydraulic Jack (Jack No 3202, Gauge No. AES-3202) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 320 (bar)

Hydraulic Jack Reading (bar)	5	40	80	120	160	200	240	280	320	
Calibrated Load	(kg)	0	25400	49000	74400	99200	123800	149800	175400	197400
	Tonne	0	25.40	49.00	74.40	99.20	123.80	149.80	175.40	197.40
Calibrated Pressure (bar)	0	41.37	79.81	121.18	161.58	201.65	244.00	285.70	321.53	

1 Tonne = 1000 kg, The Ram Area of Jack = 602.09 cm²



I/C Testing Laboratoires
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To,
 Project Engineer
 MA Engineering Services
 Engro Enfrasahe B2S Towers

Reference # CED/TFL **35510** (Dr. Usman Akmal)
 Reference of the request letter # MA/UET/LHR/004

Dated: 14-10-2020
 Dated: 12-10-2020

Tension Test Report (Page -1/3)

Date of Test 15-10-2020
 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	0.368	10	9.43	0.12	0.108	3400	5100	62464	69230	93696	103900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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Department of Civil Engineering
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To,
 Project Engineer
 MA Engineering Services
 Engro Enfrashre B2S Towers

Reference # CED/TFL **35510** (Dr. Usman Akmal)
 Reference of the request letter # MA/UET/LHR/003

Dated: 14-10-2020
 Dated: 12-10-2020

Tension Test Report (Page -3/3)

Date of Test 15-10-2020
 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	0.372	10	9.48	0.12	0.109	3400	5200	62464	68450	95533	104700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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To,
 Project Engineer
 MA Engineering Services
 ENFRASHARE

Reference # CED/TFL **35510** (Dr. Usman Akmal)
 Reference of the request letter # MA/UET/LHR/005

Dated: 14-10-2020
 Dated: 12-10-2020

Tension Test Report (Page -2/3)

Date of Test 15-10-2020
 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	0.372	10	9.48	0.12	0.109	3400	5100	62464	68520	93696	102800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Resident Engineer
 Mascon Associates(Pvt) Ltd
 Pilot Urban Rehabilitation & Infrastructure Improvement Project Package-IV from Chowk Purni
 Kotwali to Sonehri Masjid via Dabbi Bazar

Reference # CED/TFL **35511** (Dr. Usman Akmal)
 Reference of the request letter # MAS/WCLA/20/007

Dated: 14-10-2020
 Dated: 13-10-2020

Tension Test Report (Page -1/1)

Date of Test 15-10-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.365	3/8	0.370	0.11	0.107	3200	5000	64200	65670	100200	102600	0.90	11.3	
2	0.366	3/8	0.370	0.11	0.108	3200	5000	64200	65510	100200	102400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan
 (Heat No. P-486 - Kamran Steel)
 Reference # CED/TFL **35512** (Dr. Usman Akmal) Dated: 14-10-2020
 Reference of the request letter # DB-78/DAR/RE/ME/2020/0237 Dated: 14-10-2020

Tension Test Report (Page -1/1)

Date of Test 15-10-2020
 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	0.376	3	0.375	0.11	0.110	3600	4900	72200	71860	98200	97900	1.10	13.8	
2	0.364	3	0.369	0.11	0.107	3400	4800	68200	69960	96200	98800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **35513** (Dr. Qasim Khan)
 Reference of the request letter # ST/UET/20201015

Dated: 15-10-2020
 Dated: 15-10-2020

Tension Test Report (Page -1/1)

Date of Test 15-10-2020
 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	3000	4800	60200	60300	96200	96500	1.50	18.8	Moiz Steel
2	0.373	3	0.373	0.11	0.110	3100	4800	62200	62370	96200	96600	1.40	17.5	
3	0.374	3	0.374	0.11	0.110	3000	4800	60200	60080	96200	96200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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UET Lahore, Pakistan.

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Construction Manager
 Zameen Aurum
 Construction of Zameen Aurum, Plot No. A-L15, Gulberg III, Lahore

Reference # CED/TFL **35514** (Dr. Asif Hameed)
 Reference of the request letter # ZD/ZA/L/002

Dated: 15-10-2020
 Dated: 15-10-2020

Tension Test Report (Page -1/1)

Date of Test 15-10-2020

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	0.367	3	0.371	0.11	0.108	3850	4800	77200	78710	96200	98200	0.90	11.3	
2	0.371	3	0.372	0.11	0.109	3800	4800	76200	76880	96200	97200	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.

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,
 Construction Manager (Zameen Aurum)
 Deevar Developers (Pvt) Limited
 Construction of Zameen Opal, Plot No. 16, Land Breeze Housing Society, Raiwind Road,
 Lahore

Reference # CED/TFL **35515** (Dr. Asif Hameed)
 Reference of the request letter # ZD/ZA/L/0037

Dated: 15-10-2020
 Dated: 15-10-2020

Tension Test Report (Page -1/1)

Date of Test 15-10-2020

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	4.182	10	1.251	1.27	1.229	43000	56000	74700	77100	97200	100500	1.60	20.0	
2	4.228	10	1.258	1.27	1.243	44000	58000	76400	78040	100700	102900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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