



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 Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **37290** (Dr. Usman Akmal)
Reference of the request letter # IHPL/Steel/0138

Dated: 02-11-2021
Dated: 01-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-11-2021
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	0.370	3	0.372	0.11	0.109	3500	4900	70200	70920	98200	99300	1.10	13.8	PCS
2	0.371	3	0.373	0.11	0.109	3500	4900	70200	70650	98200	99000	0.90	11.3	
3	0.371	3	0.373	0.11	0.109	3500	4950	70200	70650	99200	100000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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														

Witness by Engr. Ali Husnain Khan (Kingcreate Builders)

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
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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

Ref: CED/TFL/11/37305

Dated: 03-11-2021

Dated of Test: 09-11-2021

To

Armt & Veh Gp
C/O ASID Lahore Cantt
Development of Modified Bailey Bridge

Subject: - TEST RESULT REPORT FOR I SECTION FOR FLEXURE LOAD TEST (Page – 1/4)

Reference to your letter no. AVG/C-25/2021/LID dated: 03/11/2021 on the above mentioned subject. One I-Section for Flexure load test as received by us has been tested and results are given below:

Sample No. 1 Rolled Section - A

Designation	Total Length	Test Span	Depth (d)	Flange Width (b _f)	Flange Thickness (t _f)	Web Thickness (t _w)	*Yield Load	*Maximum Load Applied	Remarks
	cm	cm	mm	mm	mm	mm	kg	kg	
I-Sec	76.20	66.00	77.90	38.10	6.70	5.30	5600	7200	No. fracture occurred upto max. applied load

* Loading Condition Simply supported with point load at mid span.

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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

Ref: CED/TFL/11/37305

Dated: 03-11-2021

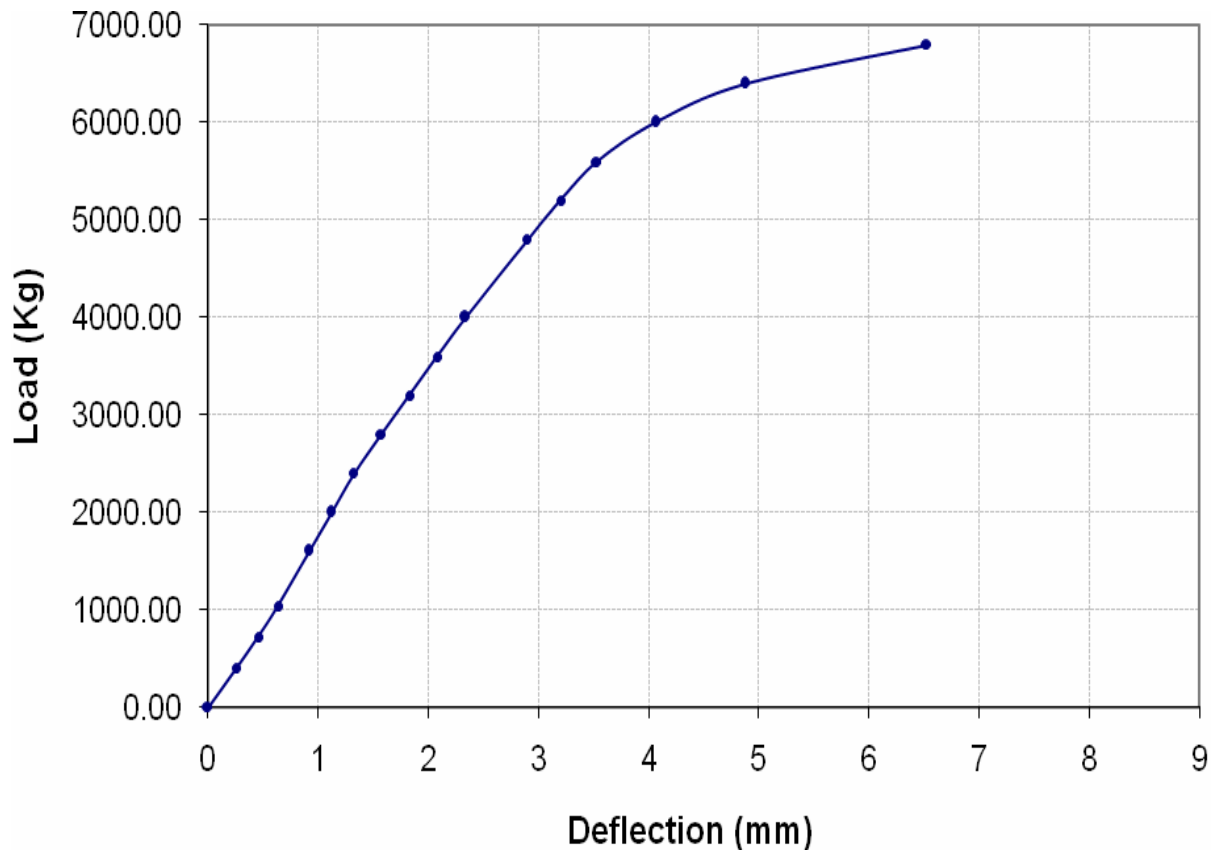
Dated of Test: 09-11-2021

To

Armt & Veh Gp
C/O ASID Lahore Cantt
Development of Modified Bailey Bridge

Subject: - TEST RESULT REPORT FOR I SECTION FOR FLEXURE LOAD TEST (Page – 1/4)

Sample No. 1 Rolled Section - A



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
Load-Deflection Curve - Specimen No. 1

Ref: CED/TFL/11/37305

Dated: 03-11-2021

Dated of Test: 09-11-2021

To
Armt & Veh Gp
C/O ASID Lahore Cantt
Development of Modified Bailey Bridge

Subject: - TEST RESULT REPORT FOR I SECTION FOR FLEXURE LOAD TEST (Page – 3/4)

Reference to your letter no. AVG/C-25/2021/LID dated: 03/11/2021 on the above mentioned subject. One I-Section for Flexure load test as received by us has been tested and results are given below:

Sample No. 2 Built in Section (Welded) – B

Designation	Total Length	Test Span	Depth (d)	Flange Width (b _f)	Flange Thickness (t _f)	Web Thickness (t _w)	*Yield Load	*Maximum Load Applied	Remarks
	cm	cm	mm	mm	mm	mm	kg	kg	
I-Sec	75.8	66.00	74.15	36.20	6.00	7.20	4800	7200	No. fracture occurred upto max. applied load

* Loading Condition Simply supported with point load at mid span.

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

Ref: CED/TFL/11/37305

Dated: 03-11-2021

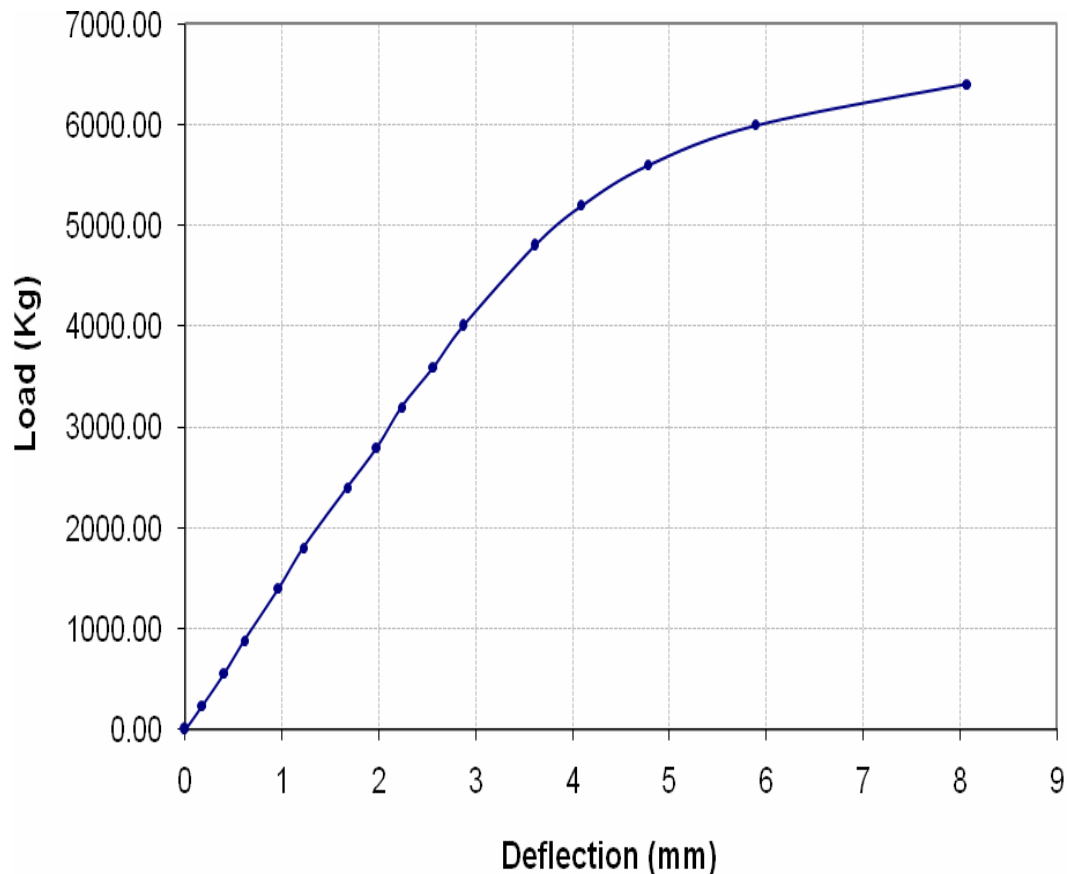
Dated of Test: 09-11-2021

To

Armt & Veh Gp
C/O ASID Lahore Cantt
Development of Modified Bailey Bridge

Subject: - TEST RESULT REPORT FOR I SECTION FOR FLEXURE LOAD TEST (Page – 4/4)

Sample No. 2 Built in Section (Welded) – B



Load-Deflection Curve - Specimen No. 2

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

Ref: CED/TFL/11/37308

Dated: 03-11-2021

Date of Test: 09-11-2021

To,

Resident Engineer

NESPK

Dualization of Swabi - Jehangira Road Left over Portion 11 km I/C Bridge on River Indud, Sub Head: Package-I, (Section 1, 2, 4 & 5)

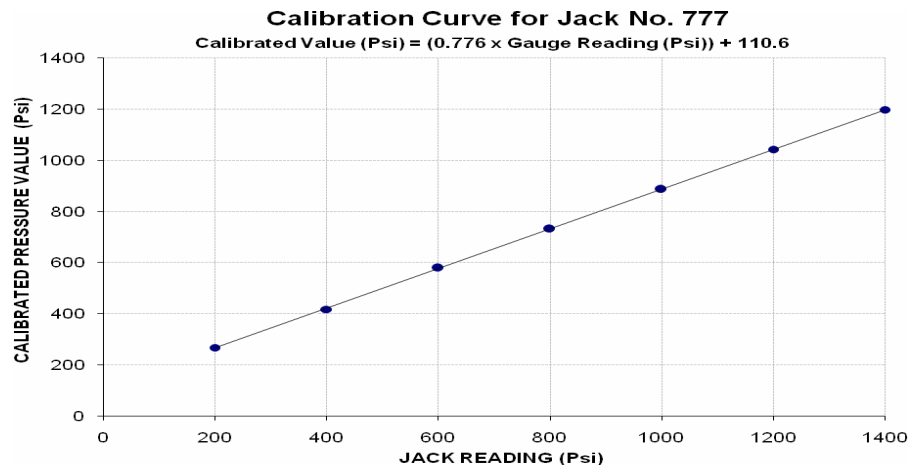
Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE
(MARK: TFL/11/37308) (Page # 1/2)

Reference to your Letter No. 4266/103/PKHA/FM/102/17, Dated: 22/09/2021 on the subject cited above. One Hydraulic Jack No. 777 with Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 6000 (Psi)
Calibrated Range : Zero - 1400 (Psi)

Hydraulic Jack Reading (Psi)	200	400	600	800	1000	1200	1400
Calibrated Load (kg)	40000	62600	86800	109600	132800	156200	179400
Calibrated Pressure (Psi)	267	418	580	732	887	1043	1198

The Ram Area of Jack = 330.20 in²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/11/37308

Dated: 03-11-2021

Date of Test: 09-11-2021

To,

Resident Engineer

NESPK

Dualization of Swabi - Jehangira Road Left over Portion 11 km I/C Bridge on River Indud, Sub Head: Package-I, (Section 1, 2, 4 & 5)

Subject: - **CALIBRATION OF DIAL GAUGES (MARK: TFL/11/37308)** (Page # 2/2)

Reference to your Letter No. 4266/103/PKHA/FM/102/17, Dated: 22/09/2021 on the subject cited above. Three Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

Total Range : Zero - 100 (mm)
Calibrated Range : Zero - 30 (mm)

Standard Reading	Dial Gauge Readings		
	Dial Gauge No. I (GE146633)	Dial Gauge No. II (GE146635)	Dial Gauge No. III (GE146632)
200	192	196	198
400	392	395	398
600	592	595	597
800	792	796	799
1000	992	995	996
1200	1191	1195	1195
1400	1391	1394	1396
1600	1591	1594	1597
1800	1791	1794	1796
2000	1992	1994	1996
2200	2191	2194	2198
2400	2391	2393	2396
2600	2591	2593	2597
2800	2791	2793	2797
3000	2992	2993	2996

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
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To,
 Resident Engineer
 AZ Engineering Associates
 Construction of Multi Purpose Complex (MPC), Building (Phase-I) at Quaid-e-Azam Business Park (QABP) on M-2 Motorway, Sheikhpura

Reference # CED/TFL **37316** (Dr. Usman Akmal)
 Reference of the request letter # RE/AZEA/MPC-119

Dated: 05-11-2021
 Dated: 26-10-2021

Tension Test Report (Page -1/1)

Date of Test 09-11-2021
 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	0.358	3	0.366	0.11	0.105	3100	4800	62200	64890	96200	100500	1.40	17.5	F.S.L
2	0.361	3	0.368	0.11	0.106	3200	4800	64200	66440	96200	99700	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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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 Ittefaq Building Solution (Pvt) Ltd.
Lahore
(Head Office Extension, Kohat Cement Company Limited, Gulberg, Lahore)

Reference # CED/TFL **37317** (Dr. Usman Akmal)
Reference of the request letter # IBS/Kohat Cement/ST01

Dated: 05-11-2021
Dated: 05-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-11-2021
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	0.383	3	0.378	0.11	0.112	3600	4700	72200	70570	94200	92200	0.80	10.0	
2	0.388	3	0.381	0.11	0.114	4200	5200	84200	81240	104200	100600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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 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,
 Chief Resident Engineer
 MM Pajistan (Pvt) Ltd
 Kachhi Canal Project – Construction of Main Canal and Distribution System (Earth Work, Structures and Lining of Main Canal & Distributaries)

Reference # CED/TFL **37320** (Dr. Usman Akmal) Dated: 08-11-2021
 Reference of the request letter # KCP/CRE/KC6B(3R)/UET/25 Dated: 05-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-11-2021
 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	0.373	0.11	0.109	3400	5100	68200	68630	102200	103000	1.20	15.0	Nonee
2	0.373	3	0.374	0.11	0.110	3300	5000	66200	66350	100200	100600	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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 FM (Works Div)
 SRDC-L
 Construction of MTVC Facility at SRDC-L

Reference # CED/TFL **37321** (Dr. Usman Akmal)

Dated: 08-11-2021

Reference of the request letter # 63301(MTVC) Works/Div/SRDC

Dated: 05-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-11-2021

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	0.368	3	0.371	0.11	0.108	3400	4500	68200	69340	90200	91800	1.10	13.8	
2	0.357	3	0.366	0.11	0.105	3300	4400	66200	69260	88200	92400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
Department of Civil Engineering
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To,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **37324** (Dr. Usman Akmal)
Reference of the request letter # IHPL/Steel/0142

Dated: 08-11-2021

Dated: 05-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-11-2021
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	0.372	3	0.373	0.11	0.109	3300	4800	66200	66600	96200	96900	1.00	12.5	PCS
2	0.374	3	0.374	0.11	0.110	3300	4800	66200	66090	96200	96200	1.20	15.0	
3	0.382	3	0.378	0.11	0.112	3400	5000	68200	66720	100200	98200	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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														

Witness by Engr. Ali Husnain Khan (Kingcreate Builders)

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
Pakistan. Ph: 92-42-99029202

To,
 Usman Ibrahim Construction
 Lahore

Reference # CED/TFL **37325** (Dr. Nauman Khurram)

Dated: 08-11-2021

Reference of the request letter # UICP/11/3A/GULBERG/LHE/01

Dated: 08-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-11-2021

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.379	3/8	0.377	0.11	0.111	3700	4900	74200	73240	98200	97000	1.00	12.5	
2	0.380	3/8	0.377	0.11	0.112	3800	4900	76200	74910	98200	96600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
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,
M/S Ittefaq Building Solution (Pvt) Ltd.
Lahore
(Sapphire Diamond Ferozwatwan (Yarn Warehouse))

Reference # CED/TFL **37326** (Dr. Usman Akmal)
Reference of the request letter # IBS/SD/ST04

Dated: 08-11-2021
Dated: 08-11-2021

Tension Test Report (Page -1/1)

Date of Test 09-11-2021
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	0.402	10	9.86	0.12	0.118	3900	4900	71650	72680	90021	91400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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.

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