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
(Malik Sohail, House # 229-M, DHA Phase-6)

Reference # CED/TFL **2798** (Dr. M Kashif) Dated: 16-02-2023
Reference of the request letter# IBS/SA/ST 001 Dated: 09-02-2023

Tension Test Report (Page -1/1)

Date of Test 17-02-2023
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	0.371	3	0.373	0.11	0.109	3690	4560	74000	74520	91400	92100	1.30	16.3	
2	0.372	3	0.373	0.11	0.109	3670	4510	73600	73920	90400	90900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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
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 Unirazz Services
Lahore
(P.O. No. 2828 and 2829 for HVAC Trench / Workshop and Locker Room Works at Packages Real Estate Pvt. Ltd.

Reference # CED/TFL **2802** (Dr. M Kashif) Dated: 16-02-2023
Reference of the request letter# USPL/PRPL/1402 Dated: 14-02-2023

Tension Test Report (Page -1/1)

Date of Test 17-02-2023
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	0.371	3	0.373	0.11	0.109	3360	5070	67400	67830	101600	102400	1.30	16.3	
2	0.374	3	0.374	0.11	0.110	3160	5070	63400	63410	101600	101800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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STRUCTURAL ENGINEERING DIVISION

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

To,

Resident Engineer
AZ Engineering Associates
Widening / Rehabilitation / Improvement of Road from Sargodha Faisalabad bypass to Jhal Chakian via Lahore Road Bypass Length 20.60 km in District Sargodha

Reference # CED/TFL **2803** (Dr. M Kashif) Dated: 16-02-2023
Reference of the request letter# RE/AZEA/SGD/191 Dated: 02-02-2023

Tension Test Report (Page -1/1)

Date of Test 17-02-2023
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	0.373	3	0.374	0.11	0.110	3980	5200	79800	79940	104200	104500	1.00	12.5	SJ Steel
2	0.375	3	0.375	0.11	0.110	4000	5300	80200	79940	106200	106000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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.

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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/02/2804 Dated: 16-02-2023

Date of Test: 17-02-2023

To,

Resident Engineer
ESS-I-AAR Consultant
Construction of Matalled Road Meer Chakar-A-Azam Rind Fly Over on Shumali Phatak Kotaddu Daira Din Panah Road.

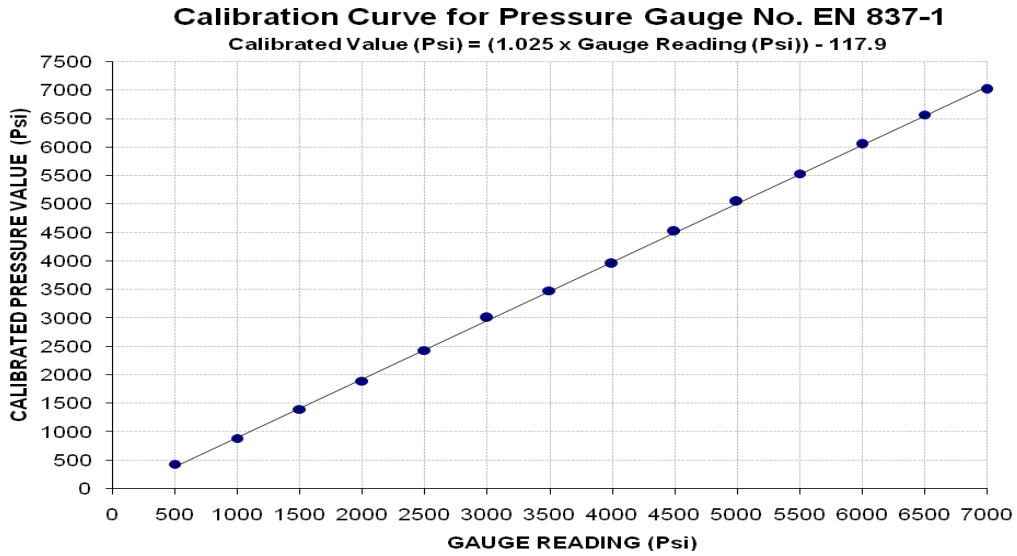
Subject: **- CALIBRATION OF PRESSURE GAUGE (MARK: TFL/02/2804)** (Page # 1/2)

Reference to your Letter No. 830, Dated: 15/02/2023 on the subject cited above. One Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 14500 (Psi)
Calibrated Range : Zero - 7500 (Psi)

Pressure Gauge Reading (Psi)	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
Calibrated Load (kg)	6000	12400	19500	26400	33800	41800	48400	55000	62900	70200	77000	84200	91400	97600
Calibrated Pressure (Psi)	431	891	1401	1896	2428	3003	3477	3951	4518	5043	5531	6048	6566	7011

The Ram Area for Calibration = 198 cm^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/02/2804 Dated: 16-02-2023

Date of Test: 17-02-2023

To,

Resident Engineer
ESS-I-AAR Consultant
Construction of Matalled Road Meer Chakar-A-Azam Rind Fly Over on Shumali Phatak Kotaddu Daira Din Panah Road.

Subject: **- CALIBRATION OF DIAL GAUGES (MARK: TFL/02/2804)** (Page # 2/2)

Reference to your Letter No. 830, Dated: 15/02/2023 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 - 50 (mm)
Calibrated Range : Zero - 50 (mm)

Standard Reading	Dial Gauge Readings		
	Dial Gauge No. I (99224)	Dial Gauge No. II (H-07096)	Dial Gauge No. III (S-13710)
400	392	392	392
800	792	793	795
1200	1193	1193	1194
1600	1592	1593	1592
2000	1993	1993	1993
2400	2394	2392	2391
2800	2793	2790	2791
3200	3192	3191	3192
3600	3595	3590	3592
4000	3993	3991	3992
4400	4392	4391	4392
4800	4791	4790	4792
5000	4992	4990	4991

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,

M/S Meezan Developers
Lahore
(Construction of Jamla Tur Rasheed Lahore Campus)

Reference # CED/TFL **2805** (Dr. M Kashif) Dated: 16-02-2023
Reference of the request letter# 00-125-255 Dated: 16-02-2023

Tension Test Report (Page -1/1)

Date of Test 17-02-2023
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	4130	5050	82800	82340	101200	100700	1.30	16.3	
2	0.375	3	0.374	0.11	0.110	4200	5070	84200	84090	101600	101500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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