STRUCTURAL ENGINEERING DIVISION

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

To,

Assistant Director
Defence Housing Authority, Gujranwala
"Construction of 5 Marla Villas (Block B)"

Reference # CED/TFL **4914** (Dr. Usman Akmal) Dated: 05-04-2024
Reference of the request letter # 111/3/AD Bldg/Lab/1307 Dated: 03-04-2024

Tension Test Report (Page -1/1)

Date of Test 09-04-2024
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	0.396	3	0.385	0.11	0.117	3540	5200	71000	66970	104200	98400	1.10	13.8	SJ Steel
2	0.394	3	0.384	0.11	0.116	3840	5560	77000	73100	111500	105900	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:
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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
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Pakistan. Ph: 92-42-99029202

To,

Executive Engineer
Road Construction Division
Lahore
(Special Repair of Approach Road to Bibi Pak Daman Shrine in District Lahore.)

Reference # CED/TFL **4915** (Dr. Usman Akmal) Dated: 05-04-2024
Reference of the request letter # EE(RC)/2945/CB/ST Dated: 06-02-2024

Tension Test Report (Page # 1/1)

Date of Test 09-04-2024
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	Grad
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3	0.374	0.11	0.110	3130	4710	62800	62810	94400	94600	1.40	17.5	
2	0.373	3	0.374	0.11	0.110	3160	4660	63400	63460	93400	93600	1.40	17.5	
3	0.375	3	0.375	0.11	0.110	3180	4690	63800	63630	94000	93900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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,

X.E.N Tamirat Committee
Anjuman Himayat-I-Islam
Construction of Bew Block H.I School Anjuman Himayat Islam, Lahore.

Reference # CED/TFL **4916** (Dr. Usman Akmal) Dated: 05-04-2024
Reference of the request letter # AHI/TM-1663 Dated: 04-04-2024

Tension Test Report (Page # 1/1)

Date of Test 09-04-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	Grad
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.368	3	0.371	0.11	0.108	3540	5050	71000	72060	101200	102800	1.30	16.3	
2	0.372	3	0.373	0.11	0.109	3640	5150	73000	73320	103200	103800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: 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,

Manager Construction
Aziz Fatima Medical & Dental College, Faisalabad
Canal View Hospital Faisalabad

Reference # CED/TFL **4918** (Dr. Usman Akmal) Dated: 05-04-2024
Reference of the request letter # Nil Dated: 18-03-2024

Tension Test Report (Page -1/1)

Date of Test 09-04-2024
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	0.367	3	0.370	0.11	0.108	3490	4740	70000	71390	95000	97000	1.30	16.3	
2	0.376	3	0.375	0.11	0.111	3380	4480	67800	67410	89800	89400	1.70	21.3	
3	0.369	3	0.372	0.11	0.109	3520	4760	70600	71500	95400	96700	1.40	17.5	
4	0.377	3	0.376	0.11	0.111	3410	4500	68400	67830	90200	89600	1.50	18.8	
5	0.378	3	0.376	0.11	0.111	3470	4500	69600	68810	90200	89300	1.40	17.5	
6	0.374	3	0.374	0.11	0.110	3470	4500	69600	69500	90200	90200	1.30	16.3	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														
#3 Bar Bend Test Through 180º is Satisfactory														
#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

To,

SDO B & R-II
Garrison Engineer (Army)
Multan
(CA No. CEA/CZ-26/2024 – Const of 8 x Sldrs Flats (G+3), 52 C, HQ 1 Armd Div at Multan Cantt.)

Reference # CED/TFL **4919** (Dr. Usman Akmal) Dated: 05-04-2024
Reference of the request letter # 6329/16/E-6 Dated: 03-04-2024

Tension Test Report (Page # 1/1)

Date of Test 09-04-2024
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	Grad
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.380	3/8	0.377	0.11	0.112	3180	4300	63800	62680	86200	84800	1.60	20.0	40
2	0.378	3/8	0.376	0.11	0.111	3080	4300	61800	61170	86200	85400	1.60	20.0	
3	0.378	3/8	0.376	0.11	0.111	3410	4660	68400	67600	93400	92400	1.50	18.8	60
4	0.379	3/8	0.377	0.11	0.111	3280	4610	65800	64860	92400	91200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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 Engineering Service Co.
Lahore

Reference # CED/TFL **4922** (Dr. Usman Akmal) Dated: 08-04-2024
Reference of the request letter # ESC/UET/GIW Dated: 08-04-2024

Tension Test Report (Page -1/1)

Date of Test 09-04-2024
Gauge length 8 inches
Description GI Wire Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm^2)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (swg)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)		
1	0.096	------	3.94	------	12.2	------	480	------	386	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Technical Executive
The Inspectians
Construction of Residential Building at Plot No. 322, F-Block, LDA Avenue-1, Lahore.

Reference # CED/TFL **4923** (Dr. Usman Akmal) Dated: 08-04-2024
Reference of the request letter # TI-UET-24-04 Dated: 08-04-2024

Tension Test Report (Page # 1/1)

Date of Test 09-04-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	Grad
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	10	9.47	0.12	0.109	3310	5010	60810	66900	92042	101300	1.00	12.5	
2	0.372	10	9.47	0.12	0.109	3430	5320	63015	69190	97737	107300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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