



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 Bin Hussain Associates
 Lahore
 (Project: Ground Floor Slab of Society Office Building Pakistan Medical Cooperative Housing Society Block Avicenna)

Reference # CED/TFL **35782** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 18-12-2020
 Dated: 17-12-2020

Tension Test Report (Page -1/1)

Date of Test 21-12-2020
 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	0.379	3/8	0.377	0.11	0.112	3900	5050	78200	77080	101200	99800	1.10	13.8	Mughal Supreme
2	0.391	3/8	0.382	0.11	0.115	3800	5000	76200	72940	100200	96000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works Sector-W, DHA PH-XI)(M/s DHA-C)

Reference # CED/TFL **35785** (Dr. Qasim Khan)
Reference of the request letter # 408/241/E/Lab/1063/023

Dated: 18-12-2020
Dated: 16-12-2020

Tension Test Report (Page -1/1)

Date of Test 21-12-2020
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal (in)	Actual (mm)	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.218	3/16	5.95	19.35	27.76	1560	1840	791	551	933	650	
2	0.203	3/16	5.73	19.35	25.83	1560	1920	791	593	973	729	
3	0.254	1/4	6.42	32.26	32.41	1720	2040	523	521	620	618	
4	0.257	1/4	6.45	32.26	32.69	1720	2040	523	516	620	612	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test												
Bend Test												
3/16" Dia Bar Bend Test Through 180° is Satisfactory												
1/4" 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,
 Resident Engineer
 NESPAK
 Replacement of Outlived Sewer in Multan Phase-II
 (M/s Al-Shan Construction Company)
 Reference # CED/TFL **35786** (Dr. Qasim Khan)
 Reference of the request letter # 4068/01/AH/01/57

Dated: 18-12-2020
 Dated: 15-12-2020

Tension Test Report (Page -1/1)

Date of Test 21-12-2020
 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	0.176	1/4	0.257	-----	0.052	2040	2920	-----	86800	-----	124300	1.50	18.8	
2	0.174	1/4	0.255	-----	0.051	1520	1920	-----	65390	-----	82600	1.00	12.5	
3	0.375	3/8	0.375	0.11	0.110	3600	4640	72200	72020	93000	92900	1.20	15.0	
4	0.384	3/8	0.379	0.11	0.113	3560	4720	71400	69480	94600	92200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
1/4" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" 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
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To,
 Resident Engineer
 NESPAK
 Replacement of Outlived Sewer in Multan Phase-II
 (M/s Malik R.C.C Pipe Factory)
 Reference # CED/TFL **35787** (Dr. Qasim Khan)
 Reference of the request letter # 4068/01/AH/01/56

Dated: 18-12-2020
 Dated: 15-12-2020

Tension Test Report (Page -1/1)

Date of Test 21-12-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test

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	0.087	3/16	0.180	-----	0.025	840	1000	-----	72800	-----	86700	1.20	15.0	
2	0.088	3/16	0.181	-----	0.026	960	1200	-----	82260	-----	102900	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/16" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI (M/s Construct))

Reference # CED/TFL **35789** (Dr. Qasim Khan) Dated: 18-12-2020
Reference of the request letter # 408/241/E/Lab/1066/6224 Dated: 18-12-2020

Tension Test Report (Page -1/1)

Date of Test 21-12-2020
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	0.409	3	0.391	0.11	0.120	3600	5700	72200	65970	114300	104500	1.10	13.8	Kamran Steel
2	0.373	3	0.374	0.11	0.110	3600	4700	72200	72410	94200	94600	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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To,
M/S Defence Housing Authority.
Lahore Cantt
(Extrenal Elec Works U/G, Pkg 2 & 4 at Sector-E, DHA Ph-IX, (M/s NLC)

Reference # CED/TFL **35790** (Dr. Qasim Khan)
Reference of the request letter # 408/241/E/Lab/1050/145

Dated: 18-12-2020
Dated: 09-12-2020

Tension Test Report (Page -1/1)

Date of Test 21-12-2020
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	0.381	3	0.378	0.11	0.112	3400	4850	68200	66910	97200	95500	1.40	17.5	FF Steel
2	0.379	3	0.377	0.11	0.112	3300	4750	66200	65220	95200	93900	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														

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To,
 Resident Engineer
 NESPAK
 Construction of Flyover at Jhall Road Railway Crossing to Sahiwal City

Reference # CED/TFL **35796** (Dr. Qasim Khan)
 Reference of the request letter # 4116/03/SSL/2020/78

Dated: 21-12-2020
 Dated: 16-12-2020

Tension Test Report (Page -1/1)

Date of Test 21-12-2020
 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	0.409	3	0.391	0.11	0.120	3600	5700	72200	65970	114300	104500	1.10	13.8	SGI
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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