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/07/33642 Dated: 29-07-19

To

Resident Engineer (PSBRT)
MM Pakistan (Pvt) Ltd
Peshawar Sustainable Bus Rapid Transit Corridor Project (PSBRT)
Chamkani Bus Depot, Park and Ride, Trans Peshawar Office and BRT Control Center

Subject: **- TEST RESULT REPORT FOR RAISED FLOORING VERTICAL POSTS AND STRINGERS**

Reference to your letter no. MMP/BRT/PSH/SN-320, dated: 26/07/2019 on the above mentioned subject. One Raised Flooring Vertical Posts and Stringers load by 80mm Indentor/Pressure stamp has been tested and results are given below:

Sr. No.	Desgin Load	Deflection at 400 kg load	Ultimate/Breaking Load
1	400 kg	0.53mm (No crack is observed at Design load of 400 kg)	840 kg

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
DCRE/RE-1
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project
(M/s Ibrahim Nizami Steel Wire Industries Sheikhupura Road)(M/s Nizami Brothers Co.)

Reference # CED/TFL **33643** (Dr. Ali Ahmed) Dated: 29-07-2019
Reference of the request letter # LSM/RE-1/2019/983 Dated: 29-07-2019

Tension Test Report (Page – 1/1)

Date of Test 31-07-2019
Gauge length -------
Description Galvanized Chain Link Wire and 2 Strand Galvanized Tension Wire
Tensile Test as pet AAASHTO M-181

Sr. No.	Diameter of Single Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	**2.90**	**2.70**	Chain Link Wire
2	**2.90**	**2.95**	
3	**2.90**	**5.55**	Tension Wire
4	**2.90**	**5.80**	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only Four Samples for Test			

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To,
Resident Engineer
PEPAC
Establishment of Workers Welfare Complex Adjacent to Sundar Industrial Estate, District Kasur (Package-Q)(FF Steel)

Reference # CED/TFL **33648** (Dr. Ali Ahmad) Dated: 29-07-2019
Reference of the request letter # RE/PEPAC/WWC-Q/16 Dated: 23-07-2019

Tension Test Report (Page -1/1)

Date of Test 31-07-2019
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	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.358	3/8	0.366	0.11	0.105	3300	4400	66200	69150	88200	92200	1.40	17.5	
2	0.360	3/8	0.367	0.11	0.106	3500	4500	70200	72990	90200	93900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Project Manager
Maypole Lime Light (Front Building)

Reference # CED/TFL **33650** (Dr. Ali Ahmed) Dated: 30-07-2019
Reference of the request letter # MLL-04 Dated: 30-07-2019

Tension Test Report (Page -1/1)

Date of Test 31-07-2019
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	0.410	3	0.392	0.11	0.121	4500	5900	90200	82280	118300	107900	0.90	11.3	
2	0.414	3	0.394	0.11	0.122	4600	5800	92200	83320	116300	105100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
M/S Jamia Tul Muntazar (Trust)
Model Town, Lahore

Reference # CED/TFL **33652** (Dr. Ali Ahmed) Dated: 30-07-2019
Reference of the request letter # Nil Dated: 30-07-2019

Tension Test Report (Page -1/1)

Date of Test 31-07-2019
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	0.377	3	0.376	0.11	0.111	3300	5300	66200	65560	106200	105300	0.90	11.3	
2	0.374	3	0.374	0.11	0.110	3100	5200	62200	62170	104200	104300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

To,
M/S Ittefaq Building Solution Pvt Ltd
Lahore
(Superior House)(Raees Faheem & Associates)

Reference # CED/TFL **33656** (Dr. Safeer Abbas) Dated: 31-07-2019
Reference of the request letter # Superior House/01 Dated: 31-07-2019

Tension Test Report (Page -1/1)

Date of Test 31-07-2019
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	0.364	3	0.369	0.11	0.107	3100	4700	62200	63860	94200	96900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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To,
M/S Defence Housing Authority.
Lahore Cantt
(Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI)(M/s Construct)

Reference # CED/TFL **33657** (Dr. Safeer Abbas) Dated: 31-07-2019
Reference of the request letter # 408/241/E/Lab/654/3264 Dated: 29-07-2019

Tension Test Report (Page -1/1)

Date of Test 31-07-2019
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	0.381	3	0.378	0.11	0.112	3200	4700	64200	62910	94200	92400	1.40	17.5	Kamran Steel
2	0.377	3	0.376	0.11	0.111	3400	4800	68200	67670	96200	95600	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.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Construction of 1-Kanal Villas at DRGCC Club House DHA Ph-6)(M/s Linker Developers (Pvt) Ltd)
Reference # CED/TFL **33660** (Dr. Asif Hameed) Dated: 31-07-2019
Reference of the request letter # 408/241/E/Lab/656/265 Dated: 31-07-2019

Tension Test Report (Page -1/1)

Date of Test 31-07-2019
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	0.372	3	0.373	0.11	0.109	3400	5600	68200	68530	112300	112900	0.90	11.3	Ittefaq Steel
2	0.388	3	0.381	0.11	0.114	3700	5900	74200	71460	118300	114000	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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To,
Resident Engineer
PEPAC
Establishment of Workers Welfare Complex (Phase-I) Adjacent to Sundar Industrial Estate, District Kasur (Package-R)

Reference # CED/TFL **33664** (Dr. Asif Hameed) Dated: 31-07-2019
Reference of the request letter # RE/PEPAC/WWC-R/17 Dated: 29-07-2019

Tension Test Report (Page -1/1)

Date of Test 31-07-2019
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	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.354	3/8	0.364	0.11	0.104	3300	4600	66200	69960	92200	97600	0.90	11.3	
2	0.359	3/8	0.366	0.11	0.105	3300	4700	66200	69010	94200	98300	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 180º is Satisfactory														

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