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/10/5895 Dated: 25-10-2024

Dated of Test: 07-11-2024

To

Resident Engineer
NESPAK
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
PRSWSSP, Darya Khan.

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. 4608/PRSWSSP/RE/DYK/294, dated 08.10.2024 on the subject cited above. Three R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.78	7.29	16.14	12.12	2.01	12500	15500	3745	4644
2	12	7.81	7.28	16.14	12.08	2.03	12000	15000	3609	4511
3	12	7.78	7.29	16.26	12.09	2.08	12500	15000	3751	4501

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

1- You can See your reports On Internet in the following web site
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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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/10/5918 Dated: 29-10-2024

Dated of Test: 07-11-2024

To

GM QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore.

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. Nil, dated 29.10.2024 on the subject cited above. Two R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.77	7.28	12.60	8.88	1.86	14500	17500	5931	7158
2	9	7.77	7.30	12.60	8.67	1.96	14000	15500	5851	6478

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
Remodelling and Upgradation of Ada Nullah & Walton Road (Package-I)

Reference # CED/TFL **5922** (Dr. Rizwan Azam) Dated: 29-10-2024
Reference of the request letter # 4702/13/HSR/09/08 Dated: 25-10-2024

Tension Test Report (Page – 1/4)

Date of Test 07-11-2024
Gauge length 2 inches
Description Steel Structure Steel Strip Tensile and Bend Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	--------		(mm)	(mm^2)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Steel Plate	16mm	27.60x16.00	441.60	113.70	192.50	257	436	1.00	50.00	
2			27.50x16.00	440.00	121.00	191.20	275	435	1.10	55.00	
3	Steel Plate	25mm	27.60x25.30	698.28	178.20	315.00	255	451	1.00	50.00	
4			27.60x25.30	698.28	188.20	314.00	270	450	1.00	50.00	
5	MS Angle	3"x3"	37.40x6.40	239.36	77.20	117.50	323	491	0.50	25.00	
6			37.50x6.40	240.00	78.50	120.20	327	501	0.50	25.00	
7	MS Chequered Plate		24.00x5.80	141.52	44.50	59.00	320	424	0.90	45.00	
8			24.00x5.80	141.52	44.70	59.00	321	424	0.90	45.00	
9	MS Angle	4"x4"	27.60x8.40	231.84	82.50	124.70	356	538	0.70	35.00	
10			27.30x8.40	229.32	81.70	125.20	356	546	0.70	35.00	
11	I-Beam		27.50x5.00	137.50	53.50	78.40	389	570	0.80	40.00	
Only Eleven Samples for Tensile Test											
Bend Test											

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,

Resident Engineer
NESPAK
Remodelling and Upgradation of Ada Nullah & Walton Road (Package-I)

Reference # CED/TFL **5922** (Dr. Rizwan Azam) Dated: 29-10-2024
Reference of the request letter # 4702/13/HSR/09/08 Dated: 25-10-2024

Weight &Size Test Report (Page – 2/4)

Date of Test 07-11-2024
Description Steel Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)	(g)	(mm)	(mm)	(kg/m^2)	(mm)	
1	**16**	**1278**	**101.25**	**101.80**	**123.99**	**16.00**	
2	**25**	**2065**	**101.40**	**101.30**	**201.04**	**25.40**	
3	**MS Cheq. Plate**	**481**	**101.00**	**98.50**	**48.35**	**5.80**	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only Three Samples for 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,

Resident Engineer
NESPAK
Remodelling and Upgradation of Ada Nullah & Walton Road (Package-I)

Reference # CED/TFL **5922** (Dr. Rizwan Azam) Dated: 29-10-2024
Reference of the request letter # 4702/13/HSR/09/08 Dated: 25-10-2024

Weight &Size Test Report (Page – 3/4)

Date of Test 07-11-2024
Description Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	**3x3**	**667**	**112.00**	**5.96**	**75.4**	**74.90**	**6.40**	
2	**4x4**	**1238**	**112.00**	**11.05**	**101.00**	**100.90**	**8.40**	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for 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,

Resident Engineer
NESPAK
Remodelling and Upgradation of Ada Nullah & Walton Road (Package-I)

Reference # CED/TFL **5922** (Dr. Rizwan Azam) Dated: 29-10-2024
Reference of the request letter # 4702/13/HSR/09/08 Dated: 25-10-2024

Weight &Size Test Report (Page – 4/4)

Date of Test 07-11-2024
Description I Beam Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (b_f)	Flange Thickness (t_f)	Web Thickness (t_w)	Remark
	--------	(g)	(cm)	(kg/m)	mm	mm	mm	mm	
1	**I Beam**	**1807**	**99.2**	**18.22**	**149.60**	**76.80**	**8.40**	**5.00**	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only One Sample for 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,

Managing Partner
A. Rehman Construction Comapnay
Construction of 2 Lab Rooms at TCF Ghulam Fatima Campus-III, Silanwali, Sargodh.

Reference # CED/TFL **5951** (Dr. Rizwan Azam) Dated: 05-11-2024
Reference of the request letter # 197/24 Dated: 05-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.374	3/8	0.374	0.11	0.110	3520	5150	70600	70570	103200	103300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Project Manager,
HIGH-Q
Construction of HIGH-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL **5953** (Dr. Rizwan Azam) Dated: 05-11-2024
Reference of the request letter # QC/HQ/CIVIL/245 Dated: 04-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend 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	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.412	10	9.98	0.12	0.121	3620	4910	66505	65810	90205	89300	1.40	17.5	
2	0.410	10	9.95	0.12	0.120	3820	5100	70180	69890	93696	93400	1.10	13.8	
3	4.169	32	31.73	1.25	1.225	38000	52400	67020	68360	92417	94300	1.70	21.3	
4	4.182	32	31.78	1.25	1.229	37400	52200	65962	67060	92064	93600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Bar Bend Test Through 180º is Satisfactory														
32mm 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,

M/S High Rise Builders
Lahore

Reference # CED/TFL **5954** (Dr. Rizwan Azam) Dated: 05-11-2024
Reference of the request letter # Nil Dated: 05-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
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	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	3280	4810	65800	66080	96400	96900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

Site Engineer
Five Star Construction Co.
Construction of Rain Water PIT at CCI LHR Plant.

Reference # CED/TFL **5955** (Dr. Rizwan Azam) Dated: 05-11-2024
Reference of the request letter # Nil Dated: 05-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
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	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.407	10	9.91	0.12	0.120	3940	5120	72384	72650	94063	94500	1.50	18.8	
2	0.404	10	9.87	0.12	0.119	3940	5120	72384	73220	94063	95200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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,

Resident Engineer
Shahzad Ayub Associates (SAA)
New Metro City Srai Alamgir

Reference # CED/TFL **5957** (Dr. Rizwan Azam) Dated: 05-11-2024
Reference of the request letter # SAA-St-Rep-025 Dated: 04-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
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	0.381	3	0.378	0.11	0.112	3430	4810	68800	67450	96400	94600	1.00	12.5	SJ Steel
2	0.383	3	0.378	0.11	0.112	3430	4790	68800	67230	96000	93900	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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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/10/5895 Dated: 25-10-2024

Dated of Test: 07-11-2024

To

Resident Engineer
NESPAK
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
PRSWSSP, Darya Khan.

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. 4608/PRSWSSP/RE/DYK/294, dated 08.10.2024 on the subject cited above. Three R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.78	7.29	16.14	12.12	2.01	12500	15500	3745	4644
2	12	7.81	7.28	16.14	12.08	2.03	12000	15000	3609	4511
3	12	7.78	7.29	16.26	12.09	2.08	12500	15000	3751	4501

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

Ref: CED/TFL/10/5918 Dated: 29-10-2024

Dated of Test: 07-11-2024

To

GM QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore.

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. Nil, dated 29.10.2024 on the subject cited above. Two R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.77	7.28	12.60	8.88	1.86	14500	17500	5931	7158
2	9	7.77	7.30	12.60	8.67	1.96	14000	15500	5851	6478

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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,

Managing Partner
B. Rehman Construction Comapnay
Construction of 2 Lab Rooms at TCF Ghulam Fatima Campus-III, Silanwali, Sargodh.

Reference # CED/TFL **5951** (Dr. Rizwan Azam) Dated: 05-11-2024
Reference of the request letter # 197/24 Dated: 05-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.374	3/8	0.374	0.11	0.110	3520	5150	70600	70570	103200	103300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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,

Project Manager,
HIGH-Q
Construction of HIGH-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL **5953** (Dr. Rizwan Azam) Dated: 05-11-2024
Reference of the request letter # QC/HQ/CIVIL/245 Dated: 04-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend 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	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.412	10	9.98	0.12	0.121	3620	4910	66505	65810	90205	89300	1.40	17.5	
2	0.410	10	9.95	0.12	0.120	3820	5100	70180	69890	93696	93400	1.10	13.8	
3	4.169	32	31.73	1.25	1.225	38000	52400	67020	68360	92417	94300	1.70	21.3	
4	4.182	32	31.78	1.25	1.229	37400	52200	65962	67060	92064	93600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Bar Bend Test Through 180º is Satisfactory														
32mm 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 High Rise Builders
Lahore

Reference # CED/TFL **5954** (Dr. Rizwan Azam) Dated: 05-11-2024
Reference of the request letter # Nil Dated: 05-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
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	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	3280	4810	65800	66080	96400	96900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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

To,

Site Engineer
Five Star Construction Co.
Construction of Rain Water PIT at CCI LHR Plant.

Reference # CED/TFL **5955** (Dr. Rizwan Azam) Dated: 05-11-2024
Reference of the request letter # Nil Dated: 05-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
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	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.407	10	9.91	0.12	0.120	3940	5120	72384	72650	94063	94500	1.50	18.8	
2	0.404	10	9.87	0.12	0.119	3940	5120	72384	73220	94063	95200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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.
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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
Shahzad Ayub Associates (SAA)
New Metro City Srai Alamgir

Reference # CED/TFL **5957** (Dr. Rizwan Azam) Dated: 05-11-2024
Reference of the request letter # SAA-St-Rep-025 Dated: 04-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
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	0.381	3	0.378	0.11	0.112	3430	4810	68800	67450	96400	94600	1.00	12.5	SJ Steel
2	0.383	3	0.378	0.11	0.112	3430	4790	68800	67230	96000	93900	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:
1- You can See your reports On Internet in the following web site
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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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Sub Divisional Officer
Buildings Sub Division
Nankana Sahib
(Revamping of Basic Health Units District Nankana Sahib Phase-I Under (Program for Revamping of 552 BHU's of North and Central Punjab on at "BHU Chak No. 17"))

Reference # CED/TFL **5958** (Dr. Rizwan Azam) Dated: 06-11-2024
Reference of the request letter # 1142/SDO/BSD/NNS Dated: 05-10-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
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	0.392	3	0.383	0.11	0.115	3590	5120	72000	68750	102600	98100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:
1- You can See your reports On Internet in the following web site
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2. The above results pertain to sample /samples supplied to this laboratory.
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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/11/5959 Dated: 06-11-2024

Dated of Test: 07-11-2024

To

GM QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore.

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. Nil, dated 05.11.2024 on the subject cited above. Four R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.76	7.27	12.60	9.06	1.77	9500	11000	3818	4420
2	9	7.78	7.30	12.52	9.02	1.75	9500	11500	3817	4621
3	12	7.72	7.33	15.94	11.98	1.98	13000	15000	3914	4516
4	12	7.73	7.27	15.98	12.05	1.97	11000	13000	3322	3927

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 Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **5960** (Dr. M Rizwan Riaz) Dated: 06-11-2024
Reference of the request letter # VECO/2024/1106/1990 Dated: 06-11-2024

Tension Test Report

Date of Test 07-11-2024
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	**9.53 (3/8")**	**430.0**	**428.0**	**10100**	**99.08**	**11000**	**107.91**	**>3.50**	**4**
2	**9.53 (3/8")**	**430.0**	**433.0**	**9500**	**93.20**	**11000**	**107.91**	**>3.50**	**3**
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only two samples for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
1- You can See your reports On Internet in the following web site
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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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Coordinator, Quality Control
AKAH GBC
Construction of JKs in GBC.

Reference # CED/TFL **5963** (Dr. Rizwan Azam) Dated: 06-11-2024
Reference of the request letter # Nil Dated: 06-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
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	0.410	3	0.392	0.11	0.120	4300	5630	86200	78730	112900	103100	1.20	15.0	
2	0.407	3	0.391	0.11	0.120	4150	5520	83200	76370	110700	101600	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.

Note:
1- You can See your reports On Internet in the following web site
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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 Mark Development (Pvt) Ltd.
Lahore
(Construction of SOS Children's Village at Mian Channu District Khanewal)

Reference # CED/TFL **5964** (Dr. Rizwan Azam) Dated: 06-11-2024
Reference of the request letter # Nil Dated: 05-10-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
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	0.357	3	0.365	0.11	0.105	3230	4640	64800	67920	93000	97600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:
1- You can See your reports On Internet in the following web site
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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,

Manager Procurement
Gharibwal Cement Limited.
Lahore

Reference # CED/TFL **5965** (Dr. Rizwan Azam) Dated: 07-11-2024
Reference of the request letter # GCL/Purchase/UET/TEST/005 Dated: 07-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend 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	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.242	32	32.00	1.25	1.247	40000	54400	70547	70700	95944	96200	1.50	18.8	
2	4.235	32	31.98	1.25	1.245	41400	55800	73016	73300	98413	98800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia 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
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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,

Engineer's Representative
Metroplan – Asian Jv
Establishment of Jinnah Institute of Cardiology at Jinnah Hospital Lahore.

Reference # CED/TFL **5969** (Dr. M Kashif) Dated: 07-11-2024
Reference of the request letter # Metroplan-Asian JV JIC-JHL-RE-287-2024Dated: 07-11-2024

Tension Test Report (Page -1/1)

Date of Test 07-11-2024
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	0.364	3	0.369	0.11	0.107	3720	4960	74600	76650	99400	102200	1.20	15.0	Kamran Steel
2	0.366	3	0.370	0.11	0.108	3690	4910	74000	75620	98400	100700	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.

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