



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
 NESPAK
 Pakistan Kidney & Liver Institute and Research Center Hospital, Lahore (Package C - I, Phase – I)

Reference # CED/TFL **35018** (Dr. M Rizwan Riaz) Dated: 22-06-2020
 Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-62 Dated: 17-06-2020

Tension Test Report (Page – 1/3)

Date of Test 30-06-2020
 Gauge length 2 inches
 Description MS Seamless Pipe Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Pipe	3	25.50x5.00	127.50	5400	6500	415.48	500.12	0.50	25.00	
2			25.50x5.00	127.50	5200	6300	400.09	484.73	0.40	20.00	
-	Pipe	8	25.40x7.75	196.85	7000	10000	348.84	498.35	0.60	30.00	
-			25.40x7.75	196.85	7300	10000	363.79	498.35	0.50	25.00	
-	-		-	-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test											
Bend Test											

To,
 Engineer's Representative

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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NESPAK

Pakistan Kidney & Liver Institute and Research Center Hospital, Lahore (Package C - I, Phase – I)

Reference # CED/TFL **35018** (Dr. M Rizwan Riaz)

Dated: 22-06-2020

Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-62 Dated: 17-06-2020

Seamless/Flattening Test Report (Page – 2/3)

Date of Test 30-06-2020

Description MS Seamless Pipe Seamless Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	Pipe 3"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
2	Pipe 8"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
-	-	-	-
		-	-
-	-	-	-
		-	-
-	-	-	-
		-	-
-	-	-	-
		-	-
Only Two Samples for Test			

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To,
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NESPAK
Pakistan Kidney & Liver Institute and Research Center Hospital, Lahore (Package C - I, Phase – I)

Reference # CED/TFL **35018** (Dr. M Rizwan Riaz) Dated: 22-06-2020
Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-62 Dated: 17-06-2020

Weight & Size Test Report (Page – 3/3)

Date of Test 30-06-2020
Gauge length -----
Description MS Seamless Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	3	636	59.8	10.64	89.2	79.20	5.00	
2	8	2419	59.8	40.45	220	204.50	7.75	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

I/C Testing Laboratories
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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
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan

Reference # CED/TFL **35027** (Dr. M Rizwan Riaz)

Dated: 23-06-2020

Reference of the request letter # DB-78/DAR/RE/ME/2020/0222

Dated: 22-06-2020

Tension Test Report (Page – 1/2)

Date of Test 30-06-2020

Gauge length 2 inches

Description Structural Pipe Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Structural Pipe	4"x6"x5mm	25.30x5.10	129.03	5500	6400	418.16	486.58	0.70	35.00	
2			25.30x5.10	129.03	5500	6300	418.16	478.98	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
Dar Engineering
Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan

Reference # CED/TFL **35027** (Dr. M Rizwan Riaz)
Reference of the request letter # DB-78/DAR/RE/ME/2020/0222

Dated: 23-06-2020
Dated: 22-06-2020

Weight & Size Test Report (Page – 2/2)

Date of Test 30-06-2020
Gauge length -----
Description Structural Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Outer Dimension		Thickness	Remark
					X	Y		
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	4"x6"x5mm	13000	61.30	21.21	159.00	100.00	5.10	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works, Ph-IX (Prism), (Pkg-III & IV), DHA Ph-IX)(M/s NLC)(Jamal)

Reference # CED/TFL **35028** (Dr. M Rizwan Riaz)
Reference of the request letter # 408/241/E/Lab/889/1183

Dated: 23-06-2020
Dated: 22-06-2020

Tension Test Report (Page – 1/1)

Date of Test 30-06-2020
Gauge length 2 inches
Description MS Pipe 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
	(inch)										
1	MS Pipe	8	25.60x4.50	115.20	4300	5400	366.17	459.84	0.50	25.00	
2			25.60x4.50	115.20	4300	5500	366.17	468.36	0.50	25.00	
3	MS Pipe	10	25.60x5.00	128.00	4500	5500	344.88	421.52	0.65	32.50	
4			25.60x5.00	128.00	4500	5500	344.88	421.52	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Two Samples for Bend Test											
Bend Test											
Strip Taken from MS Pipe (8") Bend Test Through 180° is Satisfactory											
Strip Taken from MS Pipe (10") 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,
 Site Engineer
 Construction of Mr. Khizzer Sajjad Residence - 344 Phase-1 Gujranwala Cantt

Reference # CED/TFL **35054** (Dr. M Rizwan Riaz)
 Reference of the request letter # KSR-344/ST/01

Dated: 29-06-2020
 Dated: 29-06-2020

Tension Test Report (Page -1/1)

Date of Test 30-06-2020
 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	0.413	3	0.393	0.11	0.121	4900	6000	98200	88990	120300	109000	1.00	12.5	
2	0.412	3	0.393	0.11	0.121	4300	5600	86200	78280	112300	102000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 Manager C/R & M (Engineering Cell)
 Allied Bank Limited
 Renovation Cum Construction of B/O Industrial Area Branch (0333) & Regional Office, Rahim Yar Khan
 Reference # CED/TFL **35057** (Dr. M Rizwan Riaz) Dated: 29-06-2020
 Reference of the request letter # Nil Dated: 23-06-2020

Tension Test Report (Page -1/1)

Date of Test 30-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.374	3	0.374	0.11	0.110	3300	4900	66200	66090	98200	98200	1.20	15.0	
2	0.374	3	0.374	0.11	0.110	3300	4900	66200	66180	98200	98300	1.40	17.5	
3	0.376	3	0.375	0.11	0.110	3300	5000	66200	65840	100200	99800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

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,
 Chief Resident Engineer
 NESPAK
 Widening Improvement of Road from Lodhran to Jalal Pur Road Connection KLM via Bahadur Pur Length 39.80km District Lodhran

Reference # CED/TFL **35058** (Dr. M Rizwan Riaz)
 Reference of the request letter # 4108/CRE/MZ/L-J/142

Dated: 29-06-2020
 Dated: 24-06-2020

Tension Test Report (Page -1/1)

Date of Test 30-06-2020
 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	0.373	3	0.373	0.11	0.110	3600	4900	72200	72450	98200	98700	1.00	12.5	Mioz Steel
2	0.370	3	0.372	0.11	0.109	3600	4800	72200	73020	96200	97400	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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Chief Engineer
 University of the Punjab
 Construction of Institute of Energy and Environmental Engineering at QAC

Reference # CED/TFL **35059** (Dr. M Rizwan Riaz)
 Reference of the request letter # D-497-99-C.E

Dated: 29-06-2020
 Dated: 25-06-2020

Tension Test Report (Page -1/1)

Date of Test 30-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.358	3	0.366	0.11	0.105	2400	3300	48100	50280	66200	69200	1.90	23.8	
2	0.354	3	0.364	0.11	0.104	2300	3100	46100	48680	62200	65700	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer - I
 NESPAK
 Construction Underpass at Firdous Market, Lahore

Reference # CED/TFL **35060** (Dr. M Rizwan Riaz)
 Reference of the request letter # 3772/FMU/103/MWA/04/54

Dated: 29-06-2020
 Dated: 27-06-2020

Tension Test Report (Page -1/1)

Date of Test 30-06-2020
 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	0.405	3	0.389	0.11	0.119	3900	5300	78200	72210	106200	98200	1.00	12.5	Pak Steel
2	0.407	3	0.391	0.11	0.120	3900	5200	78200	71770	104200	95700	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Manager QC
 Country Developers (Pvt) Ltd.
 Punjab Group of Colleges (PGC) – Gujrat

Reference # CED/TFL **35061** (Dr. M Rizwan Riaz)
 Reference of the request letter #Nil

Dated: 29-06-2020
 Dated: 29-06-2020

Tension Test Report (Page -1/1)

Date of Test 30-06-2020
 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	0.368	3	0.371	0.11	0.108	3900	5200	78200	79560	104200	106100	1.00	12.5	Afco Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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