



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
 RENARDET S.A ((M-4), Package-IIIB)
 Construction of Faisalabad-Khanewal Motorway (M-4) Project, Package-III, Dinpur-Khanewal,
 Section 3B

Reference # CED/TFL **33662** (Dr. Safer Abbas)
 Reference of the request letter # RE/M-4/3B/2019/474

Dated: 31-07-2019
 Dated: 30-07-2019

Tension Test Report (Page – 1/1)

Date of Test 07-08-2019
 Gauge length 2 inches
 Description G.I Corrugated Sheet Strip Tensile 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	Sheet	26.00x0.60	15.60	7.00	8.50	448.72	544.87	0.50	25.00	
2	Sheet	26.90x0.60	16.14	8.00	9.50	495.66	588.60	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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
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Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer CPEC-Package-3
 NESPAK
 China – Pakistan Economic Corridor (CPEC), Western Route Hakla (On M1) – Yarak (D.I
 Khan) Motorway, Package-3 (Tarap to Kot Belian)(M/s Fabco – M/s Jamal)

Reference # CED/TFL **33669** (Dr. Ali Ahmed) Dated: 01-08-2019
 Reference of the request letter # CPEC/NESPAK/CS/PKG3/19/1090 Dated: 30-07-2019

Tension Test Report (Page – 1/2)

Date of Test 07-08-2019
 Gauge length 2 inches
 Description Sing Post Strip Tensile 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	Sing Post	25.80x2.90	74.82	29.00	32.50	387.60	434.38	0.35	17.50	
2	Sing Post	25.80x2.90	74.82	27.50	31.50	367.55	421.01	0.45	22.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer CPEC-Package-3
NESPAK
China – Pakistan Economic Corridor (CPEC), Western Route Hakla (On M1) – Yarak (D.I
Khan) Motorway, Package-3 (Tarap to Kot Belian)(M/s Fabco – M/s Jamal)

Reference # CED/TFL **33669** (Dr. Ali Ahmed) Dated: 01-08-2019
Reference of the request letter # CPEC/NESPAK/CS/PKG3/19/1090 Dated: 30-07-2019

Tension Test Report (Page – 2/2)

Date of Test 07-08-2019
Gauge length 2 inches
Description Sing Board Panel Sheet (Aluminium Alloy) Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Sing Board Panel Sheet	28.15x3.10	87.27	8.03	12.00	92.02	137.51	0.50	25.00	
2		28.60x3.10	88.66	7.27	11.50	82.00	129.71	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
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To,
 Resident Engineer CPEC-Package-3
 NESPAK
 China – Pakistan Economic Corridor (CPEC), Western Route Hakla (On M1) – Yarak (D.I Khan) Motorway, Package-3 (Tarap to Kot Belian)(M/s P&P – M/s Victory Pipes)

Reference # CED/TFL **33670** (Dr. Ali Ahmed) Dated: 01-08-2019
 Reference of the request letter # CPEC/NESPAK/CS/PKG3/19/1091 Dated: 30-07-2019

Tension Test Report (Page – 1/2)

Date of Test 07-08-2019
 Gauge length 2 inches
 Description Sing Board Panel Sheet (Aluminium Alloy) Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Sing Board Panel Sheet Triangular	27.70x3.00	83.10	7.06	12.00	84.96	144.40	0.50	25.00	
2		27.90x3.00	83.70	6.53	12.00	78.02	143.37	0.50	25.00	
3	Sing Board Panel Sheet Circular	28.00x3.00	84.00	6.72	12.00	80.00	142.86	0.50	25.00	
4		27.90x3.00	83.70	6.70	12.00	80.05	143.37	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer CPEC-Package-3
 NESPAK
 China – Pakistan Economic Corridor (CPEC), Western Route Hakla (On M1) – Yarak (D.I
 Khan) Motorway, Package-3 (Tarap to Kot Belian)(M/s P&P – M/s Victory Pipes)

Reference # CED/TFL **33670** (Dr. Ali Ahmed) Dated: 01-08-2019
 Reference of the request letter # CPEC/NESPAK/CS/PKG3/19/1091 Dated: 30-07-2019

Tension Test Report (Page – 2/2)

Date of Test 07-08-2019
 Gauge length 2 inches
 Description Sing Post Tubuler Strip Tensile 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	Sing Post Tubuler	25.80x3.00	77.40	26.00	31.00	335.92	400.52	0.45	22.50	
2		25.80x3.00	77.40	26.00	31.50	335.92	406.98	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
RENARDET S.A ((M-4), Package-IIIB)
Construction of Faisalabad-Khanewal Motorway (M-4) Project, Package-III, Dinpur-Khanewal,
Section 3B (Nizami)(M/s Xinjian Beixin Road & Bridge Group Co, Ltd)

Reference # CED/TFL **33682** (Dr. Safeer Abbas)

Dated: 02-08-2019

Reference of the request letter # RE/M-4/3B/2019/476

Dated: 01-08-2019

Tension Test Report (Page – 1/1)

Date of Test 07-08-2019

Gauge length -----

Description Chain Link Fence Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.20	600	5.89	
2	3.15	500	4.91	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Two Sample for Test				

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UET Lahore, Pakistan.

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Department of Civil Engineering
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To,
 Resident Engineer
 New Vision
 Construction of Product Develop Center (PDC) for Composites Base Sports Goods, Sialkot

Reference # CED/TFL **33693** (Dr. Safer Abbas) Dated: 06-08-2019
 Reference of the request letter # NVEC/2019/R.E./PDC/Sialkot/003 Dated: 31-07-2019

Tension Test Report (Page -1/1)

Date of Test 07-08-2019
 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	0.379	3	0.377	0.11	0.111	3100	4800	62200	61300	96200	95000	1.30	16.3	
2	0.348	3	0.361	0.11	0.102	2800	4500	56200	60320	90200	97000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
M/S Sui Northern Gas Pipelines Limited
Lahore
(Supply, Installation and Commissioning of Air Cooler Chiller (120 Ton) at Roof Top for Head Office Building)

Reference # CED/TFL **33694** (Dr. Safer Abbas)
Reference of the request letter # CC/61-A/120 Ton

Dated: 06-08-2019
Dated: 06-08-2019

Tension Test Report (Page -1/1)

Date of Test 07-08-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.354	3/8	0.364	0.11	0.104	3000	5000	60200	63540	100200	105900	1.00	12.5	
2	0.358	3/8	0.366	0.11	0.105	3100	5000	62200	64940	100200	104800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Const of Mosque Sector-T, DHA Ph-VIII)(M/s Siddique Sons)

Reference # CED/TFL **33695** (Dr. Safer Abbas)
Reference of the request letter # 408/241/E/Lab/668/52

Dated: 06-08-2019
Dated: 02-08-2019

Tension Test Report (Page -1/1)

Date of Test 07-08-2019
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	0.363	3	0.369	0.11	0.107	3600	4700	72200	74280	94200	97000	1.00	12.5	FF Steel
2	0.361	3	0.367	0.11	0.106	3700	4900	74200	76930	98200	101900	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
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Pakistan. Ph: 92-42-99029202

To,
 Additional Director Development
 DHA Phase-XI (Rahbar)
 Construction of Cook House in Block-P, Sector-II, DHA Phase-XI (Rahbar)

Reference # CED/TFL **33698** (Dr. Safer Abbas) Dated: 06-08-2019
 Reference of the request letter # CH/Block-P/Sec-II(Extn)/5/19/2456 Dated: 30-07-2019

Tension Test Report (Page -1/1)

Date of Test 07-08-2019
 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	0.407	3/8	0.390	0.11	0.120	3300	5100	66200	60750	102200	93900	1.30	16.3	Ittefaq Steel
2	0.372	3/8	0.373	0.11	0.109	3200	4800	64200	64530	96200	96800	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 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Const of Mosque Sector-S, DHA Ph-VIII)(M/s Innovative)

Reference # CED/TFL **33702** (Dr. Safer Abbas)
Reference of the request letter # 408/241/E/Lab/672/39

Dated: 06-08-2019
Dated: 06-08-2019

Tension Test Report (Page -1/1)

Date of Test 07-08-2019
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	0.371	3	0.373	0.11	0.109	3500	5000	70200	70750	100200	101100	1.20	15.0	Kamran Steel
2	0.372	3	0.373	0.11	0.109	3600	5000	72200	72470	100200	100700	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 Ikan Engineering Services (Pvt) Ltd
Lahore

Reference # CED/TFL **33703** (Dr. Ali Ahmed)
Reference of the request letter # 2775-02-85m Flag Pole Sukkur

Dated: 07-08-2018

Dated: 07-08-2018

Tension Test Report (Page -1/2)

Date of Test 07-08-2018
Gauge length 8 inches
Description Rod Tensile Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	42	36.40	1040.621	40000	66400	377.08	625.96	1.8	22.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test										
-	-	-	-	-	-	-	-	-	-	
Bend Test										

Witness by Engr. Ayyaz Mehmood (Site Engr. CTE Pvt Ltd)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Ikan Engineering Services (Pvt) Ltd
Lahore

Reference # CED/TFL **33703** (Dr. Ali Ahmed)
Reference of the request letter # 2775-02-85m Flag Pole Sukkur

Dated: 07-08-2018

Dated: 07-08-2018

Tension Test Report (Page – 2/2)

Date of Test 07-08-2019
Gauge length 2 inches
Description Plate Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	18	25.60x19.70	504.32	18800	24600	365.70	478.52	0.70	35.00	
2	20	25.60x22.70	581.12	19200	29400	324.12	496.31	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

Witness by Engr. Ayyaz Mehmood (Site Engr. CTE Pvt Ltd)

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
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Pakistan. Ph: 92-42-99029202

To,
M/S Ikan Engineering Services (Pvt) Ltd
Lahore

Reference # CED/TFL **33705** (Dr. Safer Abbas)
Reference of the request letter # 2775-02-1 Flage Pole Sukkur

Dated: 07-08-2018

Dated: 07-08-2018

Tension Test Report (Page -1/1)

Date of Test 07-08-2018
Gauge length 8 inches
Description Rod Tensile Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	42	35.60	995.382	39000	64600	384.36	636.67	1.7	21.25	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test										
-	-	-	-	-	-	-	-	-	-	
Bend Test										

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