



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 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 New Taha Associate Factory)

Reference # CED/TFL **35566** (Dr. Ali Ahmed) Dated: 27-10-2020
 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/20/1682 Dated: 20-10-2020

Tension Test Report (Page – 1/1)

Date of Test 04-11-2020
 Gauge length 2 inches
 Description W-Metal Beam, Metal Post & Metal Spacer Steel Post Strip Tensile Test
 as per AASHTOO M-180, M-183

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Metal Beam	2.34x0.30	0.70	3700	5000	5271	7123	0.30	15.00	
2		2.34x0.30	0.70	3600	5200	5128	7407	0.30	15.00	
3	Metal Post	2.33x0.61	1.42	5000	6700	3518	4714	0.70	35.00	
4		2.33x0.61	1.42	4900	6700	3448	4714	0.70	35.00	
5	Metal Spacer	2.33x0.51	1.19	4400	5700	3703	4797	0.60	30.00	
6		2.33x0.51	1.19	4400	5700	3703	4797	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Six Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
M/S ASFO
Lahore

Reference # CED/TFL **35569** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 28-10-2020
Dated: 28-10-2020

Tension Test Report (Page – 1/1)

Date of Test 04-11-2020
Gauge length 2 inches
Description Angle 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)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Angle	23.20x6.20	143.84	5200	8700	354.64	593.35	0.45	22.50	
2		23.20x6.20	143.84	5200	8700	354.64	593.35	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test										
Bend Test										
Strip Taken from Angle Bend Test Through 180° is Satisfactory										

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To,
 Assistant Executive Engineer
 CCD, PAK. PWD. Gujranwala
 (Enhancement & Expansion of Building Infrastructure of NHMP Training College Sheikhpura,
 Phase-I (SH: Establishment of Trainees Hostel))

Reference # CED/TFL **35586** (Dr. Ali Ahmed) Dated: 03-11-2020
 Reference of the request letter # AEE-II/CCD/GA/Work/NHMP/P-I/Lab/02 Dated: 29-10-2020

Tension Test Report (Page -1/1)

Date of Test 04-11-2020
 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	0.375	3	0.375	0.11	0.110	3400	4700	68200	68010	94200	94100	1.30	16.3	FF Steel
2	0.379	3	0.377	0.11	0.112	3400	4900	68200	67190	98200	96900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S Unirazz Services
Valencia Town, Lahore
(Civil Works for Covering of Openings in PM-1 Building Packages Convertors Limited)

Reference # CED/TFL **35587** (Dr. Ali Ahmed)
Reference of the request letter # USPL/PMALL/2892-93

Dated: 03-11-2020
Dated: 02-11-2020

Tension Test Report (Page -1/1)

Date of Test 04-11-2020
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	0.412	3	0.393	0.11	0.121	3100	4600	62200	56430	92200	83800	1.60	20.0	
2	0.412	3	0.393	0.11	0.121	3100	4600	62200	56390	92200	83700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Project Engineer
 NETRACON Technologies (Pvt) Ltd
 Design, Manufacture, Supply, Installation, Testing and Commission of Plant for 500 / 220 / 132
 kV Faisalabad West Substation
 Reference # CED/TFL **35589** (Dr. Ali Ahmed) Dated: 03-11-2020
 Reference of the request letter # NTT-HO/FSDW-GS/031 Dated: 03-11-2020

Tension Test Report (Page -1/1)

Date of Test 04-11-2020
 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	0.378	3	0.376	0.11	0.111	3300	5200	66200	65490	104200	103200	1.20	15.0	Kamran Steel
2	0.375	3	0.375	0.11	0.110	3300	5200	66200	66030	104200	104100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Sohaib Ali (Sub Engr. NESPAK)

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To,
K2 Adventure
Lahore

Reference # CED/TFL **35590** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 04-11-2020

Dated: 04-11-2020

Tension Test Report (Page – 1/1)

Date of Test 04-11-2020
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/km)	(kg)	
1	14	803.18	10800	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

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To,
 Director Development
 Punjab Employees Social Security Institution
 3/A, Gulberg-V, Lahore
 (Construction of Wards at MNCH, Kot Lakhpat, Lahore)

Reference # CED/TFL **35591** (Dr. Ali Ahmed)
 Reference of the request letter # SS.DC()/777

Dated: 03-11-2020
 Dated: 03-11-2020

Tension Test Report (Page -1/1)

Date of Test 04-11-2020
 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	0.370	3/8	0.372	0.11	0.109	3900	4900	78200	78980	98200	99300	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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