



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 – Zeeruk (Jv)
 China - Pakistan Economic Corridor (CPEC) - Western Route Hakla (on M-1) to D.I Khan
 Motorway - Rehmani Khel to kot Kot Balian - Package-2A
 Reference # CED/TFL **35556** (Dr. M Rizwan Riaz) Dated: 26-10-2020
 Reference of the request letter # RE/NESPAK/P-2A/CPEC-WR/1390 Dated: 13-10-2020

Tension Test Report (Page – 1/5)

Date of Test 06-11-2020
 Gauge length 2 inches
 Description Steel Structure 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	H-Beam	350mmx350mm	26.50x18.00	477.00	12300	21900	252.96	450.40	0.90	45.00	
2			26.50x18.30	484.95	13700	22300	277.14	451.10	0.90	45.00	
3	I-Beam	16"x6"	26.50x13.10	347.15	11000	19700	310.85	556.70	0.70	35.00	
4			26.50x13.00	344.50	11000	19900	313.24	566.67	0.65	32.50	
5	I-Beam	14"x6"	26.50x13.30	352.45	12000	20400	334.00	567.81	0.60	30.00	
6			26.50x13.20	349.80	11600	19800	325.32	555.28	0.70	35.00	
7	MS Angle	2"x2"	18.40x6.20	114.08	4700	6800	404.16	584.75	0.50	25.00	
8			18.40x6.20	114.08	4800	7200	412.76	619.14	0.50	25.00	
9	MS Angle	1.5"x1.5"	15.30x6.20	94.86	3400	5400	351.61	558.44	0.55	27.50	
10			15.30x6.20	94.86	3700	5800	382.64	599.81	0.60	30.00	
Only Ten Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Tension Test Report (Page – 2/5)

Date of Test 06-11-2020
 Gauge length 2 inches
 Description Steel Structure 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	C-Channel	05"x2.5"	26.704.80	128.16	4700	7000	359.76	535.81	0.50	25.00	
2			26.70x4.70	125.49	4300	6700	336.15	523.76	0.55	27.50	
3	C-Channel	04"x2"	18.70x6.95	129.97	4300	7000	324.57	528.37	0.55	27.50	
4			18.70x6.95	129.97	4400	7200	332.12	543.47	0.60	30.00	
5	C-Channel	03"x1.5"	15.30x5.20	79.56	3100	5000	382.24	616.52	0.50	25.00	
6			15.30x5.20	79.56	3100	5100	382.24	628.85	0.50	25.00	
7	MS Plate	650x650x20mm	26.40x20.00	528.00	15700	25100	291.70	466.35	0.90	45.00	
8			26.40x20.00	528.00	15900	25400	295.41	471.92	0.90	45.00	
9	H-Beam	6"x6"	26.70x10.40	277.68	9000	16100	317.96	568.79	0.70	35.00	
10			26.70x10.40	277.68	9200	15500	325.02	547.59	0.65	32.50	
Only Ten Samples for Tensile Test											
Bend Test											

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Weight & Size Test Report (Page –3/5)

Date of Test 06-11-2020
Description H-Beam, I-Beam & C-Channel 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
1	H-Beam	350mmx350mm	55300	42.50	130.12	353.00	351.00	18.70	12.00	
2	I-Beam	16"x6"	55500	61.50	90.24	402.00	153.00	23.50	13.00	
3	I-Beam	14"x6"	51200	52.50	97.52	362.00	150.00	22.20	13.300	
4	C-Channel	05"x2.5"	6200	61.20	10.13	125.00	60.00	8.00	5.00	
5	C-Channel	04"x2"	6750	63.00	10.71	100.00	53.00	8.00	7.00	
6	C-Channel	03"x1.5"	4050	63.20	6.41	76.00	40.00	60.0	5.20	
7	H-Beam	6"x6"	21600	62.00	34.84	150.00	151.00	10.00	10.60	
-	-	-	-	-	-	-	-	-	-	
Only Seven Samples for Test										

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Weight & Size Test Report (Page – 4/5)

Date of Test 06-11-2020
Description MS Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	2x2	3050	63.00	4.84	50.40	50.20	6.20	
2	1.5x1.5	2250	61.10	3.68	38.00	38.20	6.20	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

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Weight & Size Test Report (Page – 5/5)

Date of Test 06-11-2020
Description MS Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)	(g)	(cm)	(cm)	(kg/m ²)	(mm)	
1	650x650x20	66100	65.00	65.00	156.45	20.00	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only One Sample for Test							

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To,
M/S Riaz Construction Company
Lahore
(TCF High School, Sangilah Chak No. 28, Faisalabad)

Reference # CED/TFL **35594** (Dr. M Riaz Rizwan)
Reference of the request letter # Nil

Dated: 05-11-2020
Dated: 05-11-2020

Tension Test Report (Page -1/1)

Date of Test 06-11-2020
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	0.404	3/3	0.389	0.11	0.119	4000	5000	80200	74300	100200	92900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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To,
 Jamia Masjid Gulzair-e-Madina
 Thatha Naik, Tehsil Phalia, Distt. M.B. Din

Reference # CED/TFL **35595** (Dr. M Riaz Rizwan)
 Reference of the request letter # Nil

Dated: 05-11-2020
 Dated: 05-11-2020

Tension Test Report (Page -1/1)

Date of Test 06-11-2020
 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	0.376	3	0.375	0.11	0.110	4000	4900	80200	79830	98200	97800	1.00	12.5	New
2	0.461	3	0.415	0.11	0.135	4900	6300	98200	79760	126300	102600	1.20	15.0	Old
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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														

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To,
 Project Manager
 Dupak Properaties (Pvt) Ltd
 Defence view Apartments at Shanghai Road, Lahore

Reference # CED/TFL **35597** (Dr. M Rizwan Riaz)
 Reference of the request letter # Dupak/DVA/052

Dated: 06-11-2020
 Dated: 06-11-2020

Tension Test Report (Page -1/1)

Date of Test 06-11-2020
 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	0.363	3	0.368	0.11	0.107	3900	5100	78200	80600	102200	105400	0.80	10.0	
2	0.363	3	0.368	0.11	0.107	3800	5300	76200	78550	106200	109600	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														

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