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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 Ann Global Private Limited Lahore (PCC poles at Sahiwal Pole Plant)

Reference # CED/TFL 1367 (Dr. Ali Ahmed)

Dated: 12-05-2022

Reference of the request letter # NAMCO/UET/2022-2022 Dated: 11-05-2022

Tension Test Report (Page – 1/1)

Date of Test 18-05-2021 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Nominal Weight				crength e (6.3)	Breal strength (6.2	clause	% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	%	Rema
1	9.53 (3/8")	432.0	436.0	9900	97.12	11000	107.91	>3.50	xx
2	9.53 (3/8")	432.0	435.0	9800	96.14	11100	108.89	>3.50	xx
3	11.11 (7/16")	582.0	594.0	11000	107.91	14300	140.28	>3.50	xx
4	11.11 (7/16")	582.0	594.0	12000	117.72	14300	140.28	>3.50	xx
-	-	-	-	1	-	-	-	-	-
_	-	-	-	-	-			-	-

Only four samples for Test

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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

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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
Construction of Circular Bypass Road Bannu

Reference # CED/TFL <u>1369 (Dr. Ali Ahmed)</u>

Reference of the request letter # 4040/021/SK/02/0375

Dated: 12-05-2022

Dated: 12-05-2022

Tension Test Report (Page -1/4)

Date of Test 18-05-2022 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter			Yield st clause	_	stre	iking ngth e (6.2)	Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa	%	Rema
1	12.70 (1/2")	775.0	779.0	17100	167.75	19200	188.35	199	>3.50	xx
2	12.70 (1/2")	775.0	777.0	17100	167.75	19200	188.35	198	>3.50	xx
3	12.70 (1/2")	775.0	778.0	17200	168.73	19200	188.35	199	>3.50	xx
-	-	-	•	1	-	-	-	-	1	ı
_	-	-	-	-	-	-	-	-	ı	-
-	-	-	-	-	-	-	-	-	-	-

Only three samples for Test

Note:

- 1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM A416a
- 2. Load versus percentage strain graphs are attached

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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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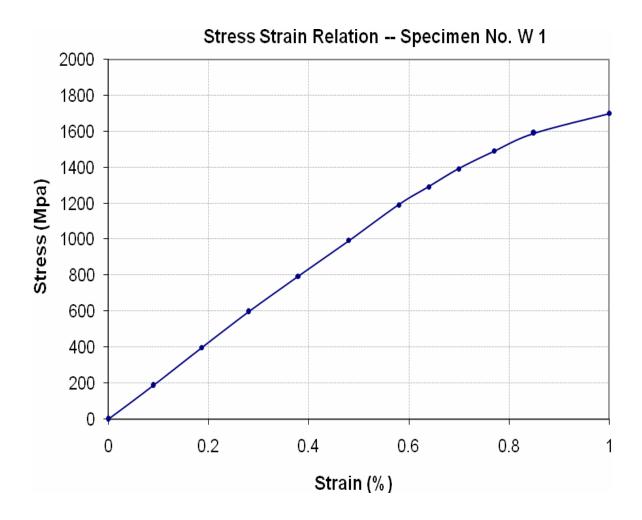


Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
Construction of Circular Bypass Road Bannu

Reference # CED/TFL <u>1369 (Dr. Ali Ahmed)</u> Reference of the request letter # 4040/021/SK/02/0375

Graph (Page -2/4)



I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 12-05-2022

Dated: 12-05-2022

- 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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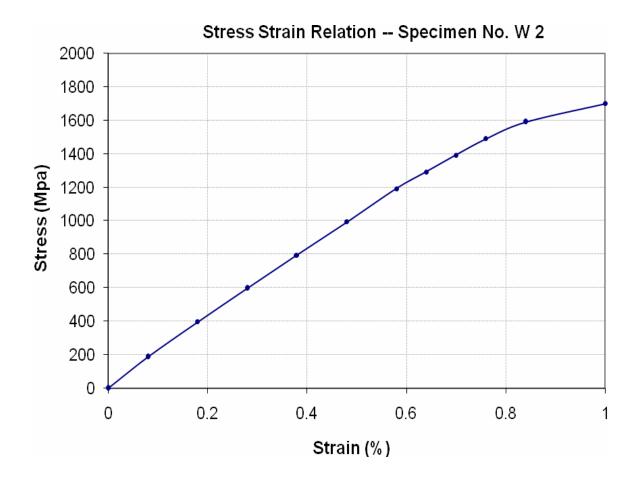


Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
Construction of Circular Bypass Road Bannu

Reference # CED/TFL <u>1369 (Dr. Ali Ahmed)</u>
Reference of the request letter # 4040/021/SK/02/0375

Graph (Page -3/4)



I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 12-05-2022

Dated: 12-05-2022

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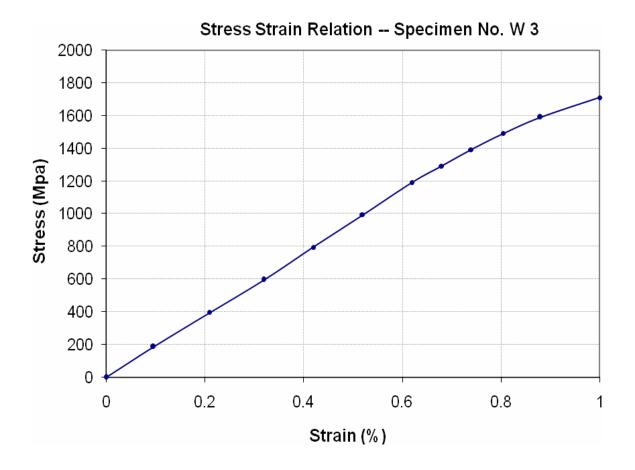


Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,
Resident Engineer
NESPAK
Construction of Circular Bypass Road Bannu

Reference # CED/TFL <u>1369 (Dr. Ali Ahmed)</u> Reference of the request letter # 4040/021/SK/02/0375

Graph (Page -4/4)



I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 12-05-2022

Dated: 12-05-2022

- 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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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Sr. Manager Projects

Izhar Group of Companies

Commercial Building for Mix-Use Development DB-32, Plot # 29/B, Sec.C. Phase-III, DHA

Lahore

Reference # CED/TFL 1378 (Dr. Ali Ahmed)

Reference of the request letter # ICPL/DB-32-PILES/2022/0513 Dated: 13-05-2022

Tension Test Report (Page - 1/1)

Date of Test 18-05-2021 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Diameter Weight				erength	Breal strength (6.2	clause	% Elongation	Remarks/ Coil No.
			(kg/km)	(kg)	(kN)	(kg)	(kN)	%	Rema
1	12.70 (1/2")	432.0	782.0	17400	170.69	19500	191.30	>3.50	XX
2	12.70 (1/2")	582.0	784.0	17400	170.69	19500	191.30	>3.50	XX
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-		-	-	-	-

Only two samples for Test

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 13-05-2022

- 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

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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 Vision Engineering (Pvt) Ltd Lahore

Reference # CED/TFL 1382 (Dr. Ali Ahmed)

Reference of the request letter # VECO/2022/0513/6870

Dated: 13-05-2022

Dated: 13-05-2022

Tension Test Report (Page - 1/1)

Date of Test 18-05-2021 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.					rength (6.3)	Breal strength (6.2	clause	% Elongation	Remarks/ Coil No.
			(kg/km)	(kg)	(kN)	(kg)	(kN)	%	Rems
1	9.53 (3/8")	432.0	431.0	9700	95.16	10700	104.97	>3.50	XX
2	11.11 (7/16")	582.0	587.0	10900	106.93	13000	127.53	>3.50	XX
-	-	-	-	1	1	1	-	-	ı
-	-	-	-	1	1	1	-	-	ı
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only two samples for Test

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, Sr. Project Manager Country Developer (Pvt) Ltd Lahore Medical and Dental College Teaching Hospital

Reference # CED/TFL 1391 (Dr. Ali Ahmed)

Reference of the request letter # CD-02-Testing/con/LMDC

Dated: 16-05-2022

Dated: 16-05-2022

Tension Test Report (Page -1/2)

Date of Test 18-05-2022 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter				Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa	%	Rema
1	12.70 (1/2")	775.0	774.0	17300	169.71	19600	192.28	199	>3.50	xx
-	-	-	-	1	-	-	-	-	1	1
-	-	-	-	ı	-	-	-	-	ı	ı
-	-	-	•	1	-	-	-	-	1	ı
_	-	-	-	-	-	-	-	-	1	-
-	-	-	-	-	-	-	-	-	-	-

Only one sample for Test

Note:

- 1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM A416a
- 2. Load versus percentage strain graphs are attached

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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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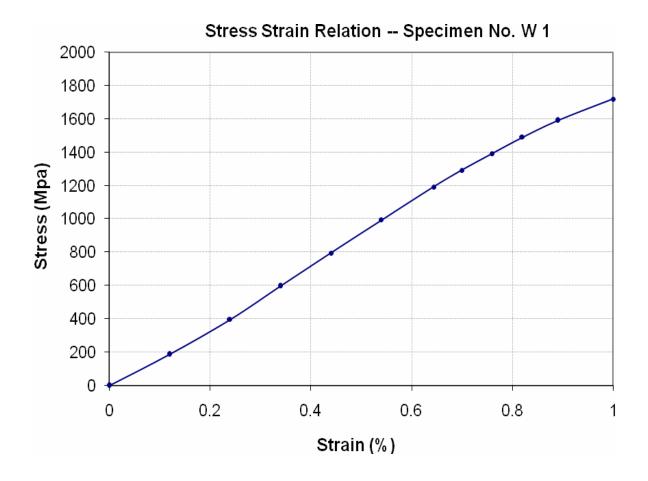


Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, Sr. Project Manager Country Developer (Pvt) Ltd Lahore Medical and Dental College Teaching Hospital

Reference # CED/TFL <u>1391 (Dr. Ali Ahmed)</u>
Reference of the request letter # CD-02-Testing/con/LMDC

Graph (Page -2/2)



I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 16-05-2022

Dated: 16-05-2022

- 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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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

Ref: <u>CED/TFL/05/1393</u> Dated: <u>16-05-2022</u>

Dated of Test: 18-05-2022

To

M/S Wahga Pipes Lahore

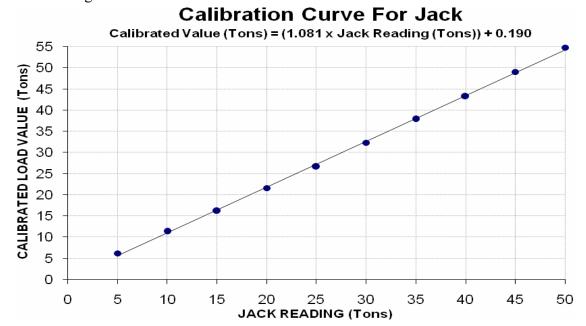
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE (MARK: TFL/05/1121)

Reference to your Letter No. Nil, Dated: 16/05/2022 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 70 (Ton) Calibrated Range : Zero - 50 (Ton)

Hydraulic Jack Reading (Ton)		5	10	15	20	25	30	35	40	45	50
Calibrated Load	(kg)	5600	10300	14700	19600	24200	29400	34400	39300	44600	49800
Cambrated Load	(Ton)	6.17	11.34	16.19	21.58	26.65	32.37	37.88	43.27	49.11	54.83

1000 Kg = 1.1011 Ton



I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, Ikram Amjad Lahore

Reference # CED/TFL 1404 (Dr. Ali Ahmed)

Reference of the request letter # Nil

Dated: 18-05-2022

Tension Test Report (Page -1/1)

Date of Test 18-05-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Weight					Yield load	Breaking Load					Elongation	longation	Remarks
(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
0.370	3	0.372	0.11	0.109	3260	4690	65400	66070	94000	95100	1.20	15.0	
0.370	3	0.372	0.11	0.109	3310	4690	66400	67000	94000	95000	1.30	16.3	
-	1	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test													
						Bend T	est						
	(tJ/sql) 0.370 0.370	(lps/ft) 0.370 3 0.370 3	(lps/ft) 0.370	(lps/tt) 0.370 3 0.372 0.11 0.370 3 0.372 0.11	Umail of the state of the st	(Laborate of the color of t	Note: only two sample (kg) (kg) (kg) (kg) 4690 3310 4690 - - - - - - - - - - - - - - - - - - - - - - - - - - - -	Image: Color of the co	Company	Company	The control of the	The control of the	The second color of the late

Witness by Engr. Allah Nawaz (Senior Officer UMT) and Muhammad Zahid Ali (Ittefaq Steel)

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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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