

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

To,

Resident Engineer ZEERUK – LOYA – MIHA Jv

Development of Islamabad Expressway PWD Underpass to GT - Road Including Bhander Bridge, Japan Road Underpass & Soan Bridge.

Reference # CED/TFL 3303 (Dr. M Kashif)

Reference of the request letter # ZI/FWO/P-N-5/23/113

Dated: 29-05-2023

Dated: 23-05-2023

Weight & Size Test Report (Page – 1/1)

Date of Test 05-06-2023

Description Corrugated Sheath Pipe Size Test

Sr. No.	Designation	External Diameter	Wall Thickness	Remark
		(mm)	(mm)	
1	Corrugated Sheath Pipe	67.30	0.50	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
	Only One Sa	mple for Tes	st	

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

Ref: <u>CED/TFL/06/3334</u> Dated: <u>31-05-2023</u>

Dated of Test: 05-06-2023

To

Resident Engineer

NESPAK

Repair / Maintence of PCC Street Siddique Colony Khokhar Road Badami Bagh Ravi Zone.

Repair / Maintenance of PCC Street Ch. Amjad Building Material Store near Hussain Drain Road Opposite Graveyard Lohay Wali Puli Hussain Park Badami Bagh Lahore.

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -1/1)

Reference to your letter No. 4084/103/BSAM/104/959, dated 19.05.2023 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
•	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.81	7.33	11.30	9.16	1.07	7500	9000	2954	3545

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

Ref: <u>CED/TFL/06/3350</u> Dated: <u>02-06-2023</u>

Dated of Test: 05-06-2023

To

Asstt: Executive Engineer - I Central Civil Division No. II Pak, P.W.D. Lahore (Construction of PCC, Sewerage, Nallah, Drain and Tuff Tiles in UC-248 Shahzada District Lahore) (14/17)(14/18)

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -1/2)

Reference to your letter No. AEE-I/LCCD-II/SAP/124, dated 14.04.2023 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
•	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.79	7.33	11.06	8.95	1.06	5000	8500	2016	3428

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

Ref: CED/TFL/06/3350 Dated: 02-06-2023

Dated of Test: <u>05-06-2023</u>

To

Asstt: Executive Engineer - I Central Civil Division No. II Pak, P.W.D. Lahore (Construction of PCC, Sewerage, Nallah, Drain and Tuff Tiles in UC-248 Shahzada District Lahore) (14/17)(14/18)

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -2/2)

Reference to your letter No. AEE-I/LCCD-II/SAP/124, dated 14.04.2023 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
•	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.71	7.35	15.75	11.76	1.99	7500	12500	2297	3828

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

To,

Project Director New Metro City Housing Scheme Krarian - Saraialamgir

Reference # CED/TFL <u>3351 (Dr. Rizwan Azam)</u>
Reference of the request letter # PD/NMC/23/79

Dated: 02-06-2023

Dated: 25-05-2023

Tension Test Report (Page -1/1)

Date of Test 02-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.368	3/8	0.371	0.11	0.108	3300	4900	66200	67190	98200	99800	1.40	17.5	Nomi Steel
2	0.367	3/8	0.371	0.11	0.108	3300	4900	66200	67430	98200	100200	1.20	15.0	No Ste
-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	_	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
2/0	"Di- D	D 1	T T1	1	1000: 4	7-4:	Bend T	est						
3/8	" Dia Ba	ır Bend	Test II	nrough	180° 18 \$	Satisfacto	ory							

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 Supervision of Office Building for GEPCO Emplyees Housing Foundation (GEHF Town, Phase-1) Gujranwala.

Reference # CED/TFL <u>3353 (Dr. Rizwan Azam)</u> Reference of the request letter # P4265/23/MA/224

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.370	3	0.372	0.11	0.109	3300	5300	66200	66880	106200	107500	1.20	15.0	op
2	0.366	3	0.370	0.11	0.108	3200	4900	64200	65510	98200	100400	1.10	13.8	Mehboob Super
-	-	-	-	-	-	-	_	-	-	-	-	-	-	M M
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 02-06-2023

Dated: 01-06-2023

- 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 Supervision of Gateway Mounument (GEHF TOWN, Phase-1), neatr Gift University Sialkot bypass Road Gujranwala.

Reference # CED/TFL **3354** (Dr. Rizwan Azam) Reference of the request letter # P4265/23/MA/225 Dated: 02-06-2023 Dated: 01-06-2023

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diam Si	neter/ ze	Aı (iı	rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	T %	Re
1	0.377	3	0.376	0.11	0.111	3700	5300	74200	73640	106200	105500	1.30	16.3	S.J Steel
2	0.376	3	0.375	0.11	0.111	3400	4900	68200	67770	98200	97700	1.20	15.0	St
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
щ2	Bar Ben	1 Tank 7	Γ1 1.	. 1000 :	Catiof-		Bend T	est						

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,

Sub Divisional Officer

Buildings Sub Division No. 15

Lahore

(Construction of Bachelor Accommodation and Judicial Rest House at Dharampura,

District Lahore.)

Reference # CED/TFL **3355** (Dr. Rizwan Azam)

Reference of the request letter # 3256

Dated: 02-06-2023 Dated: 29-05-2023

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.386	3	0.380	0.11	0.113	3500	4700	70200	68020	94200	91400	1.50	18.8	
2	0.386	3	0.380	0.11	0.114	3500	4700	70200	67930	94200	91300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	ı	-	-	-	-	-	-	-	-	1	
-	-	-	1	ı	-	-	-	•	-	-	•	-	ı	
-		-	-	-	-	-	-	-	-	-	-	-	1	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	<u> </u>		
#2	Bar Ben	d Tost 5	Flamou ~1	1000:	Satisfa	otowy	Bend T	est						

#3 Bar Bend Test Through 180° is Satisfactory

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,

Asst Dir Infra Defence Housing Authority Main Boulevard Extension (Rd 17+32 to 82+62)

Reference # CED/TFL 3356 (Dr. Usman Akmal)

Reference of the request letter # 111/15/AD/RS/Lab/MBE/02

Dated: 02-06-2023

Dated: 31-05-2023

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.376	3	0.375	0.11	0.110	3500	4700	70200	69850	94200	93800	1.10	13.8	
2	0.375	3	0.375	0.11	0.110	3400	4700	68200	67960	94200	94000	1.30	16.3	Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	FF S
-	-	1	-	ı	-	-	-	-	-	-	-	-	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	ı		
	D D	1.77	T1 1	1000:	g .: 2		Bend T	est						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ctory								

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,

M/S Butt Iron Store Phool Nagar

Reference # CED/TFL <u>3358 (Dr. Rizwan Azam)</u>

Reference of the request letter # Nil

Dated: 02-06-2023

Dated: 28-05-2023

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.376	3/8	0.375	0.11	0.110	3900	5500	78200	77880	110200	109900	1.50	18.8	00
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sh
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est	I		
							Bend T	est						

3/8" Dia Bar Bend Test Through 180° is Satisfactory

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,

M/S Basara Traders Alhore Cantt.

Reference # CED/TFL <u>3359 (Dr. Rizwan Azam)</u>
Reference of the request letter # Nil

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.371	3/8	0.373	0.11	0.109	3400	4700	68200	68720	94200	95000	1.70	21.3	00
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sheikhoo Steel
-	-	ı	-	ı	-	1	-	-	-	-	-	-	-	Sh
-	-	1	-	ı	-	ı	-	-	-	-	-	-	-	
-	-	1	-	1	-	ı	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est	1		
							D 1 T	\						
							Bend T	est						

3/8" Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 02-06-2023

Dated: 28-05-2023

- 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,

M/S Amjad Steel Traders Vehari Road, Multan

Reference # CED/TFL <u>3360 (Dr. Rizwan Azam)</u>

Reference of the request letter # Nil

Dated: 02-06-2023

Dated: 28-05-2023

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal Actual		(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.379	3/8	0.377	0.11	0.111	3500	4800	70200	69270	96200	95000	1.50	18.8	00
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sh
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample fo	or bend t	est			
							D 17							
							Bend T	est						

3/8" Dia Bar Bend Test Through 180° is Satisfactory

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,

M/S Qureshi Sons Iron Store Lahore

Reference # CED/TFL <u>3361 (Dr. Rizwan Azam)</u>

Reference of the request letter # Nil

Dated: 02-06-2023

Dated: 01-06-2023

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Note that the state of the sta		Aı (iı	rea 1 ²)	Yield load Breaking Load		Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.375	3/8	0.375	0.11	0.110	3400	4700	68200	67920	94200	93900	1.60	20.0	00
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sh
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est			
							D 17							
	Bend Test													

3/8" Dia Bar Bend Test Through 180° is Satisfactory

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,

M/S Al Raza TRaders Multan

Reference # CED/TFL <u>3362 (Dr. Rizwan Azam)</u>

Reference of the request letter # Nil

Dated: 02-06-2023

Dated: 28-05-2023

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)	Area (in²)		Yield load Breaking Load		Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	R
1	0.372	3/8	0.373	0.11	0.109	3000	4500	60200	60480	90200	90800	1.40	17.5	00
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sh
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est	ı		ı
							D 17							
							Bend T	est						

3/8" Dia Bar Bend Test Through 180° is Satisfactory

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



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

To,

Resident Engineer NESPAK

Replacement of Outlived Sewer in Multan Phase-II

Reference # CED/TFL <u>3364 (Dr. Rizwan Azam)</u> Reference of the request letter # 4068/01/MS/01/275

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch) Area (in²)		Diameter/ Size (inch) Area (in²)		ze Area		Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks										
S	(tJ/sqI)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	R											
1	0.367	3/8	0.371	0.11	0.108	3300	4700	66200	67460	94200	96100	1.50	18.8												
2	0.369	3/8	0.372	0.11	0.109	3300	4700	66200	66980	94200	95400	1.50	18.8												
-	-	-	-	-	-	-	-	-	-	-	-	-	-												
-	1	ı	-	ı	-	1	-	-	-	-	-	-	1												
-	-	-	-	-	-	-	-	-	-	-	-	-	-												
-	-	-	-	-	-	-	-	-	-	-	-	-	-												
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1													
	Bend Test																								
3/8	" Dia Ba	ır Bend	Test Th	rough	180° is \$	Satisfacto	ry						3/8" Dia Bar Bend Test Through 180° is Satisfactory												

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 02-06-2023

Dated: 18-04-2023

- 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,

Resident Engineer

AZ Engineering Associates

Rehabilitation of Road from Chiniot to Pindi Bhattian M-2 Interchange Section-II Length 18.45 km District Hafizabad.

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Reference # CED/TFL 3365 (Dr. Rizwan Azam)

Reference of the request letter # AZEA/RE/HFZ/89

Dated: 02-06-2023

Dated: 01-06-2023

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		Area (in²)				Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re		
1	0.392	3/8	0.383	0.11	0.115	3300	5300	66200	63140	106200	101400	1.30	16.3			
2	0.398	3/8	0.386	0.11	0.117	3200	5200	64200	60320	104200	98100	1.30	16.3			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test					
2/0	" Die De	un Don d	Togt Tl	manak	1900 : 6	Satisfacto	Bend T	est								

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

To,

Chief Technical Officer Sheikhoo Sugar Mills (Steel Division) Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL <u>3372 (Dr. Asad Ali)</u> Reference of the request letter #Nil

#Nil Dated: 04-06-2023

Tension Test Report (Page -1/1)

Date of Test 05-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	ja Siz		Diameter/ Size										rea n²)	Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re								
1	0.372	3	0.373	0.11	0.109	3670	4860	73600	74050	97400	98100	1.00	12.5	A								
-	0.374	3	0.374	0.11	0.110	3720	4890	74600	74560	98000	98100	1.10	13.8	В								
-	0.372	3	0.373	0.11	0.109	3690	4860	74000	74460	97400	98100	1.30	16.3	C								
-	-	-	-	ı	-	-	-	-	-	-	-	-	-									
-	-	-	-	ı	-	-	-	-	-	-	-	-	-									
-	-	-	-	ı	-	-	-	-	-	-	-	-	-									
	1	Γ	ı		Note	e: only th	ree samp	les for te	nsile test	· ,	T	1	T									
-							Bend T	est														

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 05-06-2023

- 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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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples