

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

To,

District Controller of Purchase/ (Inspection)

P. R. General Stores Moghalpura

Reference # CED/TFL **32504** (Dr. Usman Akmal) Dated: 25-01-2019 Reference of the request letter # CSF/511/P/2018/R.S. Dated: 22-01-2019

Tension Test Report (Page - 1/1)

Date of Test 31-01-2019 Gauge length 2 inches

Description M.S Sheet Steel Strip Tensile Test as per ASTM A36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	. Elongation	Remarks		
		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)	%			
1	A	25.00x1.50	37.50	720	1240	188.35	324.38	0.90	45.00			
2	C	25.00x1.50	37.50	760	1200	198.82	313.92	0.90	45.00			
3	D	25.00x1.50	37.50	760	1180	198.82	308.69	0.90	45.00			
4	E	24.90x1.45	36.11	760	1180	206.50	320.61	0.90	45.00			
-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-			
		Only Four Sa	amples fo	r Tensile a	nd Three	Samples	for Bend T	Cest				
	Rond Tost											

Bend Test

Strip Taken from Steel Plate Bend Test Through 180° is Satisfactory (F)

Strip Taken from Steel Plate Bend Test Through 180° is Satisfactory (G)

Strip Taken from Steel Plate Bend Test Through 180° is Satisfactory (H)

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/01/32505</u>

To Resident Engineer Techno Consultant International (Pvt) Ltd CPEC Package-1

Subject: TESTING OF DUCTILE IRON GRATING, (AASHTO-M-306)

Reference to yourletter No. RE/CPEC/DIK/2019/440, dated 09.01.2019 on the subjectcited above. One Ductile Iron Grating as received by us has been tested. The results are tabulated as under.

Sr. No.	Sample	Result
1	Ductile Iron Grating	No Cracks and permanent deflection was observed at specified load

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 25-01-19

- 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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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-II)
Construction of Faisalabad-Khanewal N

Construction of Faisalabad-Khanewal Motorway (M-4) Project, Package-II, Jamani-Shorkot, Section 2B (M/s China Railway First Group, Ltd)

Reference # CED/TFL **32507** (Dr. Usman Akmal) Dated: 25-01-2019 Reference of the request letter # RE/M-4/2B/2019/525 Dated: 24-01-2019

Tension Test Report (Page -1/2)

Date of Test 31-01-2019 Gauge length 2 inches

Description G.I Corrugated Sheet Steel 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)	(kg)	(kg)	(MPa)	(MPa)	(in)	0%	
1	Sheet	25.30x0.95	24.04	1000	1160	408.15	473.46	0.60	30.00	
2	Sheet	25.20x0.95	23.94	1000	1120	409.77	458.95	0.50	25.00	
-	-	-	-	-	-	•	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	•	-	-	
-	-	-	-	-	-	•	-	-	-	
			Only T	wo Sample	es for Tens	sile Test		T		
				Bend	l Test					

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,
Resident Engineer
RENARDET S.A ((M-4), Package-II)
Construction of Faisalabad-Khanewal Motorway (M-4) Project, Package-II, Jamani-Shorkot,
Section 2B (M/s China Railway First Group, Ltd)

Reference # CED/TFL **32507** (Dr. Usman Akmal) Dated: 25-01-2019 Reference of the request letter # RE/M-4/2B/2019/525 Dated: 24-01-2019

Size Test Report (Page – 2/2)
Date of Test 31-01-2019

Gauge length -----

Description G.I Corrugated Sheet Size Test

Sr. No.	Designation	(mm)	Remark							
1	Sheet	0.95								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
-	-	-								
Only One Sample for Test										

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,
Maintenance Engineer-I
University of the Punjab
Construction of Department of Islamic Studies at QAC
(M/s Zaeem & Brithers)(PSC)

Reference # CED/TFL **32527** (Dr. Usman Akmal) Dated: 30-01-2019 Reference of the request letter # R-177-CE Dated: 28-01-2019

Tension Test Report (Page -1/1)

Date of Test 31-01-2019 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		e Area (in²)		Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Grad
S 2	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	
1	0.382	3	0.378	0.11	0.112	2500	3500	50100	49130	70200	68800	1.70	21.3	40
2	0.390	3	0.382	0.11	0.115	2600	3800	52100	49950	76200	73100	1.40	17.5	4
3	0.386	3	0.380	0.11	0.113	3700	5300	74200	71860	106200	103000	1.20	15.0	60
4	0.383	3	0.379	0.11	0.113	3600	5200	72200	70430	104200	101800	1.20	15.0	9
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Not	e: only fo	our samp	les for te	nsile test					
	Bend Test													

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, Resident Engineer NESPAK

Punjab Government Servants Housing Scheme, Sialkot

(M/s Arshad & Co)(Afco Steel)

Reference # CED/TFL **32529** (Dr. Waseem Abbas) Dated: 30-01-2019 Reference of the request letter # 3730/31/SYA/09/467 Dated: 26-01-2019

Tension Test Report (Page -1/1)

Date of Test 31-01-2019 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/size		/ Area (in²)					e Stress si)	Elongation	% Elongation	Remarks		
<i>S</i> ₂	(1J/sqI)	(lbs/ft) Nominal (#) Actual (inch)		Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	Э%	R
1	0.398	3	0.386	0.11	0.117	4300	5100	86200	81020	102200	96100	1.10	13.8	
2	0.378	3	0.376	0.11	0.111	4500	5250	90200	89390	105200	104300	0.90	11.3	
-	-	-	•	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	ı		
Bend Test														
#3	#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 University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,
Sub Divisional Officer
PHE Sub Division
Gujranwala

(Construction of PCC/ RCC/ Drainge at Shaheen abad, District Gujranwala)

Reference # CED/TFL **32531** (Dr. Usman Akmal)

Reference of the request letter # 498/T

Dated: 30-01-2019

Dated: 13-11-2018

Tension Test Report (Page -1/1)

Date of Test 31-01-2019 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)	Area (in²)					Stress si)	Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.345	3/8	0.359	0.11	0.101	3800	4600	76200	82590	92200	100000	0.75	9.4	
-	-	•	-	•	-	•	-	-	-	-	-	-	-	
-	•	ı	-	•	-	•	-	-	•	-	-	-	-	
-	•	•	-	•	-	•	-	-	•	-	-	-	-	
-	-				-		-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			1		No	te: only o	ne samp	le for ten	sile test	1	1	1		ı
	Bend Test													

I/C Testing Laboratoires UET Lahore, Pakistan.

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To, M/S K.T Brothers Lahore (AMS)

Reference # CED/TFL **32532** (Dr. Usman Akmal)

Reference of the request letter # Nil

Dated: 30-01-2019

Dated: 30-01-2019

Tension Test Report (Page -1/1)

Date of Test 31-01-2019 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ize ch)		rea n²)	Xield load Preaking Preaking Proad (isq)						% Elongation	Remarks	
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.370	3/8	0.372	0.11	0.109	3700	5600	74200	75010	112300	113600	1.00	12.5	
-	-	-	-	1	-	-	-	-	-	-	•	-	•	
-	-	-	-	1	-	-	-	-	-	-	•	-	ı	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	1	-	-	-	-	-	-	•	-	ı	
		Note: only one sample for tensile and one sample for bend test												
2/0	Bend Test													
3/8	3/8" Dia Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

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To,
Project Coordinator
Banu Mukhtar (Pvt) Ltd
"Interloop Limited, Manga RaiwindRoad"

Reference # CED/TFL **32533** (Dr. Usman Akmal) Dated: 30-01-2019 Reference of the request letter # BML/PC/INTERLOOP/050 Dated: 25-01-2019

Tension Test Report (Page -1/1)

Date of Test 31-01-2019 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ size		size (in ²		Area (in²)						e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re	
1	0.430	3	0.401	0.11	0.126	4200	5400	84200	73320	108200	94300	1.00	12.5		
2	0.429	3	0.400	0.11	0.126	4200	5400	84200	73500	108200	94500	1.00	12.5		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	•			-	-	-	-	-	-	-	-	-	-		
-	•			-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1			
							Bend T	est							
#3	#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires UET Lahore, Pakistan.

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