



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-IIIB)
 Construction of Faisalabad - Khanewal Motorway (M-4) Project Package-III, Dinpur-Khanewal,
 Section-3B (D & L International)(M/s Xinjiang Beixin Road & Bridge Group Co, Ltd)

Reference # CED/TFL **33487** (Dr. Waseem Abbas)
 Reference of the request letter # RE/M-4/3B/2019/463

Dated: 04-07-2019
 Dated: 03-07-2019

Tension Test Report (Page – 1/3)

Date of Test 17-07-2019
 Gauge length 2 inches
 Description W-Section 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
1	W-Section	1.96x0.275	0.54	2000	2850	3710.58	5287.57	0.50	25.00	S-1
2		1.96x0.275	0.54	2000	2900	3710.58	5380.33	0.50	25.00	
3	W-Section	1.96x0.275	0.54	2100	2800	3896.10	5194.81	0.55	27.50	S-2
4		1.96x0.275	0.54	2000	2900	3710.58	5380.33	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only Eight Samples for Tensile and Eight Samples for Bend Test

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Bend Test

Strip Taken from W-Section Bend Test Through 180° is Satisfactory
 Strip Taken from W-Section Bend Test Through 180° is Satisfactory
 Strip Taken from W-Section Bend Test Through 180° is Satisfactory
 Strip Taken from W-Section Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/07/33559

Dated: 12-06-19

To
Material Engineer
EA Consulting (Pvt) Ltd - CSCEC - AER
Sukkur - Multan Motorway (392 km) Turnkey Basis Project
(Section - 7)

Subject: **TESTING OF MAIN HOLE COVER,**

Reference to your letter No. CSCEC/PKM/NHA/220, dated 05.05.2019 on the subject cited above. One Main Hole Cover as received by us has been tested. The results are tabulated as under.

Sr. No.	Sample	Crack Load	Mode Failure
1	Main Hole Cover	90 kN	Crack was appeared at 90 kN

I/C Testing Laboratories
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To,
 Resident Engineer/Team Leader
 Prime Engineering Consultancy
 Kallurkot Bridge Project
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan
 (Nomee Steel)
 Reference # CED/TFL **33563** (Dr. Waseem Abbas) Dated: 16-07-2019
 Reference of the request letter # KK-DIK—BR-PJ/2019/028 Dated: 13-07-2019

Tension Test Report (Page -1/1)

Date of Test 17-07-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	4.243	32	32.01	1.25	1.247	39400	51400	69489	69630	90653	90900	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and two samples for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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To,
 Manager Civil
 US Denim Mills (Pvt) Ltd
 Lahore
 (Kanran Steel)

Reference # CED/TFL **33564** (Dr. Waseem Abbas)
 Reference of the request letter # US Real/CIV/Izmir/03

Dated: 16-07-2019
 Dated: 05-07-2019

Tension Test Report (Page -1/1)

Date of Test 17-07-2019
 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	0.359	3	0.366	0.11	0.105	3300	4600	66200	68990	92200	96200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Development Works Sector-E, DHA Phase-IX) - (M/s Inland)

Reference # CED/TFL **33566** (Dr. Waseem Abbas)
Reference of the request letter # 408/241/E/Lab/641/11

Dated: 16-07-2019
Dated: 12-07-2019

Tension Test Report (Page -1/1)

Date of Test 17-07-2019
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	0.374	3	0.374	0.11	0.110	3200	5200	64200	64170	104200	104300	1.20	15.0	FF Steel
2	0.375	3	0.375	0.11	0.110	3300	5300	66200	65920	106200	105900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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UET Lahore, Pakistan.

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To,
 Director
 M/S T.S. Builders (Pvt) Ltd
 Lahore

Reference # CED/TFL **33567** (Dr. Waseem Abbas)
 Reference of the request letter # Nil

Dated: 16-07-2019
 Dated: 15-07-2019

Tension Test Report (Page -1/1)

Date of Test 17-07-2019
 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	0.376	3/8	0.375	0.11	0.111	2800	4300	56200	55780	86200	85700	1.10	13.8	
2	0.373	3/8	0.374	0.11	0.110	2700	4300	54100	54270	86200	86500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Senior Resident Engineer
 ProMag Pvt Ltd
 DHA Multan
 (Development of Sector-M1)

Reference # CED/TFL **33569** (Dr. Waseem Abbas)
 Reference of the request letter # CRE/Lab/Sec-M1/291

Dated: 16-07-2019
 Dated: 15-07-2019

Tension Test Report (Page -1/1)

Date of Test 17-07-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.414	10	10.00	0.12	0.122	3500	5000	64301	63370	91858	90600	1.20	15.0	
2	0.414	10	10.00	0.12	0.122	3600	5100	66138	65220	93696	92400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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To,
M/S Design Force (Pvt) Limited
Rawalpindi
(Attock Petrol Station, DHA Lahore)

Reference # CED/TFL **33570** (Dr. Waseem Abbas)
Reference of the request letter # Nil

Dated: 16-07-2019
Dated: 16-07-2019

Tension Test Report (Page -1/1)

Date of Test 17-07-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.364	3/8	0.369	0.11	0.107	4000	4800	80200	82300	96200	98800	1.00	12.5	
2	0.364	3/8	0.369	0.11	0.107	4100	5000	82200	84420	100200	103000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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Ref: CED/TFL/07/33576

Dated: 17-07-19

To
Project Manager
GMHP Consultants
Gorkin-Matiltan Hydropower Project

Subject: - TEST RESULT REPORT FOR BEARING DEVICE (PAD)

Reference to your letter no. 3834-36/PM/(30)/GMHPP/2019, Dated: 08/07/2019 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP) has been received by us. The same was tested and results are given below.

Laboratory : **TEST FLOOR LAB**
Machine : **SHIMADZU**
Sample No. : **1/1**
Dimensions of EBRP : **510 x 200 x 57.46 mm**

TEST RESULTS - SHORT DURATION

Load Duration : **5+5 minutes**
Test Load : **115 TONS**
Bulging Pattern : **Uniform Buldging.**
Laminated Parallelism : **Parallel**
Cracks : **No crack was observed**

Witness by ME Consultant GMHP Kalam Swat

I/C Testing Laboratoires
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