

Resident Engineer/Team Leader  
 Prime Engineering Consultancy, Kallurkot Bidge Project

**Test Performed By:** Dr. /Engr. Nauman Khurram

**Client Reference:** KK-DIK-BR-PJ/2021/228  
**SOM Lab Ref:** CED/SOM/3686(Page-1/2)  
**Test:** Tension Test & bend Test  
**Sample Type:** Deformed Bar(Pak Steel )

**Dated:** 21-01-2021  
**Dated:** 21-01-0221  
**Test Specification:** ASTM-A 615  
**Gauge Length:** 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.390	20	19.67	314	304	152.00	208.70	484	500	664	687	35.0	200	17.5	
2	0.854	12	11.77	113	109	63.20	82.20	559	582	727	756	22.5	200	11.3	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four Samples Received and Tested
12mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Resident Engineer/Team Leader

Test Performed By:

Dr. /Engr.

Nauman Khurram

Prime Engineering Consultancy, Kallurkot Bidge Project

Client Reference: KK-DIK-BR-PJ/2021/229

Dated: 21-01-2021

SOM Lab Ref: CED/SOM/3686(Page-2/2)

Dated: 21-01-0221

Test: Tension Test &amp; bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Pak Steel )

Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.862	12	11.84	113	110	60.20	83.50	532	548	738	760	25.0	200	12.5	
2	0.835	12	11.64	113	106	57.00	80.00	504	536	707	752	25.0	200	12.5	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four Samples Received and Tested
12mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Construction Manager  
NESPAK, (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. M. Irfan UI Hassan

Client Reference: 3976/13/MHK/01/188

SOM Lab Ref: 3497(Page-1/1)

Dated: 19-01-2021

Dated: 21-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.670	4	0.501	0.20	0.197	6.98	8.58	77000	78170	94650	96090	1.20	8.0	15.0	
2	0.671	4	0.501	0.20	0.197	6.93	8.82	76440	77600	97230	98720	1.30	8.0	16.3	
3	0.673	4	0.502	0.20	0.198	7.03	8.72	77560	78350	96110	97080	1.30	8.0	16.3	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Muhammad Atif Mujahid

Test Performed By:

Dr. /Engr.

Nauman Khurram

Project Engineer - Civil, IIW Industrial Engineers & Contractors, (PSO Machike Terminal)

Client Reference: nil

SOM Lab

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Ref:

1/1)

Dated: 22-01-2021

Dated:

22-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.650	8	0.996	0.79	0.779	25.45	35.68	71060	72070	99600	101010	1.10	8.0	13.8	
2	2.648	8	0.995	0.79	0.778	25.30	36.11	70630	71720	100800	102350	1.00	8.0	12.5	
3	0.668	4	0.500	0.20	0.196	5.91	8.99	65200	66530	99150	101170	1.10	8.0	13.8	
4	0.668	4	0.500	0.20	0.196	6.01	9.09	66320	67680	100270	102320	1.10	8.0	13.8	
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**BEND TEST:**

# 8 Sample bend through 180 degrees Satisfactorily without any crack

# 4 Sample bend through 180 degrees Satisfactorily without any crack

**Note:-**

Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Maj Adnan khalid®

**Test Performed By:**

Dr. /Engr.

M. Rizwan Riaz

Dy Dir MTL, Proposed 2 Kanal, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

**Client Reference:** 408/241/E/Lab/18/869

**SOM Lab**

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**Ref:**

1/1)

**Dated:** 22-01-2021

**Dated:**

22-01-2021

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:**

Deformed Bar (KAMRAN Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.591	4	0.471	0.20	0.174	5.37	8.12	59240	68090	89590	102980	1.10	8.0	13.8	
2	0.588	4	0.469	0.20	0.173	5.50	8.07	60700	70180	89030	102920	1.20	8.0	15.0	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)