

Ahsan Zubair,RE

**Test Performed By:** Dr. /Engr. Asad Ali Gillani

Nespak.(Upgrade/Dual Of Main Barki Rd From Lhr School Of Economics To BRB Canal Bridge Lhr)

**Client Reference:** 4042/03/AZ/2/09

**SOM Lab** 5885 (Page-

**Ref:** 1/2)

**Dated:** 31-01-2022

**Dated:** 16-02-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Mughal 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	0.665	4	0.498	0.20	0.195	7.80	9.33	85990	88200	102860	105490	1.10	8.0	13.8	
2	0.661	4	0.497	0.20	0.194	7.80	9.28	85990	88650	102290	105460	1.00	8.0	12.5	
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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)

Ahsan Zubair,RE

**Test Performed By:** Dr. /Engr. Asad Ali Gillani

Nespak.(Upgrade/Dual Of Main Barki Rd From Lhr School Of Economics To BRB Canal Bridge Lhr)

**Client Reference:** 4042/03/AZ/2/08

**SOM Lab** 5885 (Page-

**Ref:** 2/2)

**Dated:** 31-01-2022

**Dated:** 16-02-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Mughal 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	1.536	6	0.758	0.44	0.451	15.70	19.37	78690	76770	97080	94710	1.20	8.0	15.0	
2	1.553	6	0.762	0.44	0.456	15.90	19.64	79710	76910	98460	95010	1.00	8.0	12.5	
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**BEND TEST:**

# 6	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)

Israr Ullah Khan

Test Performed By:

Dr. /Engr. Asad Ali Gillani

RE Nespak.(Const. Of Underpass Across Bedian Rd Connecting Ph-VI With Ph-IX,DHA Lhr)

Client Reference: 3790/102/IUK/UET/01/41

SOM Lab 5886 (Page-

Ref: 1/1)

Dated: 16-02-2022

Dated: 16-02-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mughal 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	2.626	8	0.991	0.79	0.772	26.20	33.20	73140	74840	92690	94850	1.60	8.0	20.0	
2	2.631	8	0.992	0.79	0.773	26.45	33.59	73850	75470	93770	95830	1.60	8.0	20.0	
3	1.072	5	0.633	0.31	0.315	11.06	14.12	78690	77440	100440	98850	1.30	8.0	16.3	
4	1.070	5	0.632	0.31	0.314	11.16	14.02	79410	78400	99720	98450	1.40	8.0	17.5	
5	0.674	4	0.502	0.20	0.198	7.80	9.33	85990	86860	102860	103890	1.00	8.0	12.5	
6	0.677	4	0.503	0.20	0.199	7.59	9.48	83750	84170	104540	105070	0.90	8.0	11.3	
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**BEND TEST:**

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

Muhammad Rajab

Test Performed By:

Dr. /Engr. S Asad Ali Gillani

QA/QC Kachhi Canal Rem.Works Consults-DAY(Earth W,Structure and Lining of Main Canal &Distbtrs)

Client Reference: KCP/CRE/KC-6B(4R)/UET/98

SOM Lab 5887 (Page-

Ref: 1/1)

Dated: 15-02-2022

Dated: 16-02-2022

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	2.696	8	1.004	0.79	0.792	26.96	34.05	75270	75080	95050	94810	1.60	8.0	20.0	Mughal
2	1.506	6	0.751	0.44	0.443	16.77	20.69	84050	83480	103720	103020	1.00	8.0	12.5	Itfaque
3	0.676	4	0.503	0.20	0.199	5.71	8.36	62950	63270	92180	92640	1.00	8.0	12.5	Itfaque
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**BEND TEST:**

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