

Habibullah Bhutto

**Test Performed By:**

Dr. /Engr.

Asad Ali Gillani

PM BWRDSP Consultants.(Const Of Ahmedzai (PIS & FIS) Subproject,Zhob River Basin)

**Client Reference:** 4078/061/HAB/01/NCB-08/657

**Dated:** 23-06-2022

**SOM Lab Ref:** CED/SOM/634(Page-1/1)

**Dated:** 18-07-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** M S Deformed Bar (Moiz 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	2.223	19	18.98	284	283	128.00	181.70	451	453	641	643	40.0	200	20.0	
2	2.210	19	18.93	284	281	127.20	181.20	449	452	639	644	40.0	200	20.0	
3	0.995	13	12.71	133	127	62.50	87.00	471	494	655	687	35.0	200	17.5	
4	0.988	13	12.66	133	126	60.20	84.50	454	479	637	672	35.0	200	17.5	
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**Witnessed By:** Naveed Abbas ME Engineer NESPAK (NCB-08) Zhob

**BEND TEST:**

19mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
13mm	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)

Syed Khalid Gillani (TL)

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

G3 Engg Consult.(Storm Water Drainage Sys From Haji Camp To River Ravi Via Lakshmi Chowk..Lhr)

Client Reference: G3/0265/TL-03

SOM Lab

Ref: 635 (Page-1/1)

Dated: 24-06-2022

Dated: 18-07-2022

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	1.056	5	0.628	0.31	0.310	9.14	13.12	65050	65050	93340	93340	1.50	8.0	18.8	
2	0.661	4	0.497	0.20	0.194	6.42	8.38	70820	73010	92400	95260	1.10	8.0	13.8	
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**BEND TEST:**

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

Engr. Imran Saddique

**Test Performed By:**

Dr. /Engr.

Asad Ali Gillani

P & Co Engr. Ittefaq Building Solution.(Diamond Denim By Saphhire, Ferozewattwan)

**Client Reference:** IBS/SD/St-47

**SOM Lab**

**Ref:**

636 (Page-1/1)

**Dated:** 18-07-2022

**Dated:**

18-07-2022

**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	1.487	6	0.746	0.44	0.437	15.06	19.24	75470	75990	96420	97080	1.20	8.0	15.0	
2	1.491	6	0.747	0.44	0.438	15.01	19.32	75210	75560	96830	97270	1.20	8.0	15.0	
3	0.660	4	0.497	0.20	0.194	6.09	8.28	67110	69190	91280	94100	1.00	8.0	12.5	
4	0.657	4	0.496	0.20	0.193	6.29	8.53	69360	71870	94090	97500	1.20	8.0	15.0	
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**BEND TEST:**

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