

Resident Engineer/Team Leader

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Prime Engineering Consultancy, Kallurkot Bridge Project

Client Reference: KK-DIK-BR-PJ/2020/212

Dated: 07-12-2020

SOM Lab Ref: CED/SOM/3386(Page-1/1)

Dated: 08-12-2020

Test: Tension Test & 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	3.905	25	25.16	491	497	267.20	345.20	544	538	703	695	35.0	200	17.5	
2	2.471	20	20.02	314	315	174.00	219.00	554	553	697	696	30.0	200	15.0	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Four Samples Received and Tested</b>
20mm	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)

Abuzar Khan

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Sr. Material Manager, Shangrila Food (Pvt) Ltd. Karachi

Client Reference: nil

Dated: 06-12-2020

SOM Lab Ref: CED/SOM/3388(Page-1/1)

Dated: 08-12-2020

Test: Tension Test & bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

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	3.961	25	25.36	491	505	234.00	366.70	477	464	747	727	40.0	200	20.0	
2	3.983	25	25.42	491	507	233.00	365.70	475	460	745	721	40.0	200	20.0	
3	2.247	20	19.09	314	286	135.50	178.70	431	474	569	625	37.5	200	18.8	
4	2.229	20	19.01	314	284	135.20	178.20	430	477	567	628	35.0	200	17.5	
5	0.995	12	12.70	113	127	58.50	76.20	517	462	674	602	25.0	200	12.5	
6	1.003	12	12.76	113	128	57.20	76.00	506	448	672	595	30.0	200	15.0	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Nine Samples Received and Tested</b>
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
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)

Khalid Mahmood

Resident Engineer, NESPAK JV Turk Pak Resident Const. Supervision for Establishment of D. G. Khan (M/s ZKB)

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: 4161/RE/SFMKB/DGK/138

SOM Lab Ref: 3385(Page-2/2)

Dated: 06-12-2020

Dated: 08-12-2020

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	1.483	6	0.745	0.44	0.436	13.56	18.91	67960	68580	94780	95650	1.50	8.0	18.8	
2	1.488	6	0.746	0.44	0.437	13.97	19.29	70000	70480	96670	97340	1.30	8.0	16.3	
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**BEND TEST:**

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

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

Khalid Mahmood

Resident Engineer, NESPAK JV Turk Pak Resident Const. Supervision for Establishment of D. G. Khan (M/s ZKB)

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: 4161/RE/SFMKB/DGK/137

SOM Lab Ref: 3385(Page-1/1)

Dated: 06-12-2020

Dated: 08-12-2020

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	2.677	8	1.001	0.79	0.787	24.46	33.79	68300	68560	94340	94700	1.70	8.0	21.3	
2	2.675	8	1.000	0.79	0.786	24.77	34.07	69160	69510	95110	95590	1.50	8.0	18.8	
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**BEND TEST:**

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

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

Umair Ahmad

Construction Manager, Sabcon Associates (Pvt) Ltd. 29-D Gulberg, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: nil

Dated: 08-12-2020

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref:

3387(Page-1/1)

Dated:

08-12-2020

ASTM-A-615

Deformed

Bar

Gauge Length:

8 inch

Sample Type:

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	1.503	6	0.750	0.44	0.442	14.85	20.10	74450	74110	100760	100300	1.20	8.0	15.0	
2	1.502	6	0.749	0.44	0.441	15.21	20.31	76240	76060	101780	101550	1.20	8.0	15.0	
3	0.653	4	0.494	0.20	0.192	6.22	8.69	68570	71430	95770	99760	1.20	8.0	15.0	
4	0.655	4	0.494	0.20	0.192	6.22	8.69	68570	71430	95770	99760	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Witnessed By:

Umair Ahmad

**BEND TEST:**

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

Khalid Mahmood

Resident Engineer, NESPAK JV Turk Pak Resident Const. Supervision for Establishment of D. G. Khan (M/s ZKB)

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: 4161/RE/SFMKB/DGK/138

SOM Lab Ref: 3385(Page-2/2)

Dated: 06-12-2020

Dated: 08-12-2020

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	1.483	6	0.745	0.44	0.436	13.56	18.91	67960	68580	94780	95650	1.50	8.0	18.8	
2	1.488	6	0.746	0.44	0.437	13.97	19.29	70000	70480	96670	97340	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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**BEND TEST:**

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

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

Basharat Munir

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Project Manager, Dupak Properties (Pvt) Ltd. Defence View Apartments at Shanghai Road Lahore

Client Reference: Dupak/DVA/055

SOM Lab

Ref: 3390(Page-1/1)

Dated: 08-12-2020

Dated: 08-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.581	8	0.982	0.79	0.758	24.33	32.11	67930	70800	89640	93430	1.50	8.0	18.8	
2	2.583	8	0.983	0.79	0.759	25.64	34.15	71570	74500	95340	99230	1.50	8.0	18.8	
3	1.519	6	0.754	0.44	0.446	15.57	21.07	78020	76970	105610	104190	1.40	8.0	17.5	
4	1.475	6	0.743	0.44	0.433	15.46	20.97	77510	78770	105100	106800	1.30	8.0	16.3	
5	0.657	4	0.496	0.20	0.193	6.27	8.87	69130	71640	97800	101340	1.20	8.0	15.0	
6	0.659	4	0.497	0.20	0.194	6.01	8.79	66320	68370	96900	99890	1.10	8.0	13.8	
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**BEND TEST:**

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

AHKN, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

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Client Reference: Nil

SOM Lab

Ref: 3391(Page-1/1)

Dated: 08-12-2020

Dated: 08-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.566	8	0.980	0.79	0.754	26.55	35.73	74140	77670	99750	104510	1.30	8.0	16.3	
2	2.570	8	0.980	0.79	0.755	26.37	35.42	73620	77040	98890	103480	1.30	8.0	16.3	
3	0.657	4	0.496	0.20	0.193	7.31	8.82	80600	83520	97230	100760	1.10	8.0	13.8	
4	0.653	4	0.494	0.20	0.192	7.24	8.82	79810	83140	97230	101290	1.20	8.0	15.0	
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**BEND TEST:**

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

Li Shi  
 Manager, Sinohydro Corporation Limited, Pakistan

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: ADIB-301B/2018/157

SOM Lab

Ref: 3392(Page-1/1)

Dated: 07-12-2020

Dated: 07-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.508	6	0.751	0.44	0.443	13.35	18.40	66940	66480	92230	91600	1.30	8.0	16.3	
2	1.500	6	0.749	0.44	0.441	13.53	18.73	67810	67650	93860	93650	1.40	8.0	17.5	
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Witnessed By: M. Zahid Sharif, NESPAK - Barqaab JV

**BEND TEST:**

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

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

Faraz H. Mirza  
Projects Manager, Treet Group Companies, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: TBP-071220-01

SOM Lab

Ref: 3392(Page-1/1)

Dated: 07-12-2020

Dated: 08-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	2.656	8	0.997	0.79	0.781	30.07	36.36	83950	84920	101510	102680	1.50	8.0	18.8	
2	2.689	8	1.003	0.79	0.790	29.94	36.31	83580	83580	101370	101370	1.40	8.0	17.5	
3	1.511	6	0.752	0.44	0.444	16.18	19.67	81090	80360	98610	97730	1.00	8.0	12.5	
4	1.461	6	0.739	0.44	0.429	16.00	20.56	80220	82280	103060	105700	1.30	8.0	16.3	
5	0.662	4	0.498	0.20	0.195	8.31	10.09	91610	93960	111290	114140	1.00	8.0	12.5	
6	0.666	4	0.500	0.20	0.196	8.31	10.04	91610	93480	110720	112980	1.00	8.0	12.5	
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**BEND TEST:**

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

Asst. Resident Engineer  
Abdullah Khan Architect, Site Office Bahawalpur

Test Performed By: Dr. /Engr.

S Asad Ali  
Gillani

Client Reference: ARE/AKA/205/Sed-N/32

SOM Lab

Ref: 3393(Page-1/1)

Dated: 07-12-2020

Dated: 08-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	0.656	4	0.496	0.20	0.193	6.54	8.46	72170	74790	93300	96680	1.10	8.0	13.8	
2	0.660	4	0.497	0.20	0.194	6.65	8.61	73290	75560	94990	97920	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>  <b>Only Three Samples Received and Tested</b>

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

Syed Suleman Haider  
Assistant Resident Engineer/ Material Engineer, AZEA, Kamoki Residency

Test Performed By: Dr. /Engr.

S. Asad Ali Gillani

Client Reference: AZEA/REKMK/1153

SOM Lab

Ref: 3394 (Page-1/1)

Dated: 30-11-2020

Dated: 08-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Plain & 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	2.701	8	1.005	0.79	0.794	23.65	37.84	66020	65690	105640	105100	1.40	8.0	17.5	
2	1.513	6	0.753	0.44	0.445	13.15	20.23	65910	65170	101420	100280	1.30	8.0	16.3	
3	0.655	4	0.494	0.20	0.192	5.07	7.39	55870	58200	81500	84890	1.30	8.0	16.3	
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**BEND TEST:**

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

Syed Suleman Haider

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Assistant Resident Engineer/ Material Engineer, AZEA, Kamoki Residency

SOM Lab

Client Reference: AZEA/REKMK/1153

Ref:

3394 (Page-1/1)

Dated: 30-11-2020

Dated:

08-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Plain & 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	2.701	8	1.005	0.79	0.794	23.65	37.84	66020	65690	105640	105100	1.40	8.0	17.5	Plain Bar
2	1.513	6	0.753	0.44	0.445	13.15	20.23	65910	65170	101420	100280	1.30	8.0	16.3	Plain Bar
3	0.655	4	0.494	0.20	0.192	5.07	7.39	55870	58200	81500	84890	1.30	8.0	16.3	Deformed
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**BEND TEST:**

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

Sub Divisional Officer  
Highway Sub Division, T. T. Singh

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

Client Reference: 117-

SOM Lab

Ref: 3395(Page-1/1)

Dated: 27-10-2020

Dated: 08-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Plain & 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	2.660	8	0.998	0.79	0.782	19.13	30.28	53420	53960	84520	85390	1.60	8.0	20.0	Plain Bar
2	2.666	8	0.998	0.79	0.783	19.16	30.38	53500	53980	84810	85560	1.50	8.0	18.8	Plain Bar
3	0.661	4	0.497	0.20	0.194	5.17	7.31	56990	58760	80600	83090	1.60	8.0	20.0	Deformed
4	0.663	4	0.498	0.20	0.195	5.20	7.36	57330	58800	81160	83240	1.40	8.0	17.5	Deformed
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Six Samples Received and Tested</b>
# 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. Naveed Sadiq  
Resident Engineer, Orbit Developers Private Limited, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali Gillani

Client Reference: Nil

SOM Lab

Ref: 3396(Page-1/1)

Dated: 08-12-2020

Dated: 08-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.448	6	0.736	0.44	0.426	15.29	20.05	76640	79160	100500	103810	1.10	8.0	13.8	
2	1.459	6	0.739	0.44	0.429	15.51	20.36	77770	79760	102040	104650	1.20	8.0	15.0	
3	0.695	4	0.510	0.20	0.204	6.42	8.84	70820	69430	97460	95550	1.40	8.0	17.5	
4	0.672	4	0.501	0.20	0.197	6.90	9.14	76100	77260	100830	102370	1.20	8.0	15.0	
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**BEND TEST:**

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

Maj Adnan khalid®

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Dy Dir MTL, Const. of Additional Room of DHA MTL Block-B, DHA Ph-IX, (M/S Tahira Const.)

Client Reference: 408/241/E/Lab/1047/3020

SOM Lab

Ref:

3397(Page-1/1)

Dated: 08-12-2020

Dated:

08-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Itrfaq 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	1.459	6	0.739	0.44	0.429	13.00	16.92	65150	66820	84820	86990	1.40	8.0	17.5	
2	1.508	6	0.751	0.44	0.443	15.36	19.03	77000	76480	95400	94750	1.20	8.0	15.0	
3	0.685	4	0.506	0.20	0.201	6.44	9.81	71040	70690	108140	107600	1.20	8.0	15.0	
4	0.678	4	0.503	0.20	0.199	6.60	9.89	72730	73100	109040	109590	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>  <b>Only Six Samples Received and Tested</b>
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

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