

Resident Engineer,

Test Performed By:

Dr. /Engr.

M Rizwan Riaz

Zeeruk International Pvt Ltd. Lhr. Eastern Bypass Proj. Site Off 1.75 KM off Mehmood Booti Interchange L-20

Client Reference: ZI/LEBP/RE/2019/210

Dated: 16-02-2019

SOM Lab Ref: CED/SOM/310 (Page-1/1)

Dated: 18-02-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar(Fazal 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.562	16	15.92	201	199	128.00	143.00	637	644	711	719	32.5	200	16.3	
2	1.553	16	15.87	201	198	89.70	144.00	446	454	716	728	32.5	200	16.3	
3	0.890	12	12.01	113	113	45.00	63.70	398	398	563	562	37.5	200	18.8	
4	0.880	12	11.95	113	112	45.00	64.00	398	402	566	571	40.0	200	20.0	
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BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Ittefaq Iron Industries Ltd.
Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: TEC/UET/19071203

SOM Lab

Ref: 311(Page-1/1)

Dated: nil

Dated: 18-02-2019

Test: Tension 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.693	8	1.004	0.79	0.791	22.73	33.03	63460	63380	92210	92090	1.80	8.0	22.5	
2	2.692	8	1.004	0.79	0.791	22.65	32.98	63240	63160	92060	91950	1.80	8.0	22.5	
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BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

M. Munir
Construction Manager, Minky & Associates (Pvt) Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: MA/UET/34/19218

SOM Lab

Ref: 312(Page-1/1)

Dated: 18-02-2019

Dated: 18-02-2019

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.664	8	0.998	0.79	0.783	23.90	35.04	66740	67330	97810	98690	1.50	8.0	18.8	
2	1.470	6	0.742	0.44	0.432	14.42	20.05	72300	73640	100500	102370	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
# 6	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

Japan Garments,
Shalimar Link Road, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: nil

SOM Lab

Ref: 313(Page-1/1)

Dated: nil

Dated: 18-02-2019

Test: Tension 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.530	6	0.757	0.44	0.450	0.00	13.46	0	0	67450	65950	0.20	8.0	2.5	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Fairmay Investments
76C-1, Gulberg-III, Lahore

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: nil
Dated: 18-2-2019

SOM Lab
Ref: 314(Page-1/1)
Dated: 18-02-2019

Test: Tension Test & Bend Test Test Specification:

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.630	8	0.992	0.79	0.773	23.39	30.75	65310	66750	85860	87750	1.40	8.0	17.5	
2	2.666	8	0.998	0.79	0.783	33.20	39.93	92690	93520	111470	112470	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
# 8	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

Marc Anthony W. Flores
 GM Design & Development, Green Palms Housing Project, GWADAR

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: GPHP/MS/HCO/001

SOM Lab

Ref: 315(Page-1/1)

Dated: 18-2-2019

Dated: 18-02-2019

Test: Tension 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.583	4	0.467	0.20	0.171	5.47	7.08	60370	70600	78130	91370	1.10	8.0	13.8	
2	0.598	4	0.473	0.20	0.176	5.91	7.67	65200	74090	84530	96060	1.20	8.0	15.0	
3	0.589	4	0.469	0.20	0.173	5.40	7.05	59580	68880	77790	89930	1.40	8.0	17.5	
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BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Abdullah Khadim
Resident Engineer, DAR Engineering

Test Performed By: Dr. /Engr. M Rizwan Riaz

Client Reference: DB-78/DAR/RE/ME/2019/0181

SOM Lab

Ref: 316(Page-1/2)

Dated: 18-02-2019

Dated: 18-02-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(Kamran Steel)

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.068	5	0.632	0.31	0.314	9.68	14.27	68900	68020	101530	100240	1.40	8.0	17.5	P-54
2	1.056	5	0.628	0.31	0.310	9.65	14.07	68680	68680	100080	100080	1.40	8.0	17.5	P-54
3	1.059	5	0.629	0.31	0.311	10.81	14.85	76880	76630	105670	105330	1.30	8.0	16.3	P-60
4	1.046	5	0.625	0.31	0.307	11.08	15.09	78830	79600	107330	108380	1.40	8.0	17.5	P-60
5	0.670	4	0.501	0.20	0.197	6.12	8.77	67450	68470	96670	98140	1.20	8.0	15.0	p-250
6	0.653	4	0.494	0.20	0.192	6.03	8.36	66550	69320	92180	96020	1.50	8.0	18.8	P-250
7	0.659	4	0.497	0.20	0.194	6.24	8.46	68800	70920	93300	96190	1.20	8.0	15.0	P-261
8	0.655	4	0.494	0.20	0.192	6.32	8.48	69700	72600	93530	97420	1.20	8.0	15.0	P-261
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 5	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	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