

Shamshad Hussain
Bukhari, PM

GMHP Consultants.(Design, Procurement and Const. Of 84MW Gorkin-Matiltan Hudropower Project)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 7049-52/PM(30)GMHPP/2023

Dated : 24-05-2023

SOM Lab Ref: CED/SOM/2346(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Pak Steel)

Gauge Length: 200 m

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	m	%	
1	3.862	25	25.03	491	492	186.00	285.20	379	379	581	580	35.0	200	17.5	
2	3.885	25	25.10	491	495	187.50	286.00	382	379	583	578	40.0	200	20.0	
3	2.464	20	19.99	314	314	154.00	194.50	490	491	619	620	30.0	200	15.0	
4	2.487	20	20.09	314	317	160.20	199.20	510	506	634	629	37.5	200	18.8	
5	1.495	16	15.57	201	190	77.00	114.20	383	405	568	600	37.5	200	18.8	
6	1.498	16	15.59	201	191	78.50	115.20	390	412	573	604	35.0	200	17.5	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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

Shamshad Hussain
Bukhari, PM

Test Performed By: Dr. /Engr. Nauman Khurram

GMHP Consultants.(Design, Procurement and Const. Of 84MW Gorkin-Matiltan Hudropower Project)

Client Reference: 7049-52/PM(30)GMHPP/2023

Dated : 24-05-2023

SOM Lab Ref: CED/SOM/2346(Page-1b/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Pak Steel)

Gauge Length: 200 m

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	m	%	
1	3.839	25	24.95	491	489	185.20	275.20	377	379	561	563	40.0	200	20.0	
2	3.844	25	24.97	491	490	186.00	276.00	379	380	562	564	42.5	200	21.3	
3	1.498	16	15.59	201	191	79.70	115.00	396	418	572	603	42.5	200	21.3	
4	1.500	16	15.60	201	191	78.70	115.20	391	412	573	603	35.0	200	17.5	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
16mm	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

Shamshad Hussain
Bukhari, PM
GMHP Consultants.(Design, Procurement and Const. Of 84MW Gorkin-Matiltan Hudropower Project)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 7049-52/PM(30)GMHPP/2023

Dated : 24-05-2023

SOM Lab Ref: CED/SOM/2346(Page-1c/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Pak Steel)

Gauge Length: 200 m

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	m	%	
1	2.396	20	19.71	314	305	110.20	164.50	351	362	524	540	45.0	200	22.5	
2	2.407	20	19.76	314	307	111.00	165.00	353	363	525	539	47.5	200	23.8	
3	1.002	12	12.75	113	128	61.00	77.70	539	478	687	609	25.0	200	12.5	
4	0.995	12	12.71	113	127	60.20	77.50	532	475	685	612	25.0	200	12.5	
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BEND TEST:

20mm	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

Taj M. Iron Store
Ameen Traders Center, Mian Channu

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2350(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Sheikhoo Steel)

Test Specification: ASTM-A 615
Gauge Length: 200 m

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	m	%	
1	0.998	12	12.72	113	127	53.00	76.00	469	418	672	599	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Iqbal Iron Store
Purana Railway Road, Pakpattan

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2351(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	0.989	12	12.67	113	126	53.50	73.20	473	425	647	581	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Qasir Brothers
Khanywal Road Bypass Jahania.

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

Client Reference: Nil

Dated : 29-05-2023

SOM Lab Ref: CED/SOM/2352(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	1.000	12	12.72	113	127	53.70	73.00	475	423	645	575	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Bajwa Steel Traders
Lakar Mandi Pull, Chichawatni

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

Client Reference: Nil

Dated: 06-06-2023

SOM Lab Ref: CED/SOM/2353(Page-1a/1)

Dated: 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	1.000	12	12.72	113	127	55.00	75.20	486	434	665	593	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Abdul Ghafoor Iron
Store
Khanewal

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

Client Reference: Nil

Dated : 29-05-2023

SOM Lab Ref: CED/SOM/2354(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	3.834	25	24.93	491	488	247.20	325.50	504	507	663	668	35.0	200	17.5	
2	1.002	12	12.75	113	128	55.50	74.70	491	435	660	586	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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	

Ittehad Iron Store
Kehror Pacca

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

Client Reference: Nil

Dated : 29-05-2023

SOM Lab Ref: CED/SOM/2356(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	1.000	12	12.72	113	127	54.50	77.20	482	430	683	608	40.0	200	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Ahsan Iron Store
Ghosia Chowk, Lodhran

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2357(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	0.995	12	12.72	113	127	58.20	82.50	515	459	729	650	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Wakeel Iron Store
Chishtian Road Bahawalnagar

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2358(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Sheikhoo Steel)

Test Specification: ASTM-A 615
Gauge Length: 200 m

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	m	%	
1	3.836	25	24.95	491	489	217.00	298.20	442	444	607	610	40.0	200	20.0	
2	2.218	12	18.97	113	282	142.70	184.20	1262	506	1629	653	35.0	200	17.5	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Sajawal Iron Store
Duniya Pur

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

Client Reference: Nil

Dated : 29-05-2023

SOM Lab Ref: CED/SOM/2359(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	1.000	12	12.72	113	127	52.70	73.70	466	415	652	581	35.0	200	17.5	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Jhangir Iron Store
Lakar Mandi Burewala

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2360(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	1.000	12	12.72	113	127	52.70	74.00	466	415	654	583	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Bahawalpur Iron Store
Yazman Road Bahawalpur

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2361(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	3.826	25	24.90	491	487	238.70	317.50	486	491	647	652	35.0	200	17.5	
2	1.000	12	12.74	113	127	50.50	70.00	447	397	619	550	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

F. S Steel
Karak

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2363(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	3.795	25	24.80	491	483	257.20	324.50	524	533	661	672	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Ittefaq Steel Corporation
Hajiabad Faisalabad.

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2365(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test
Sample Type: Deformed Bar (Sheikhoo Steel)

Test Specification: ASTM-A 615
Gauge Length: 200 m

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	m	%	
1	0.995	12	12.72	113	127	53.50	75.50	473	422	668	595	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

M Anwar Steel Faisalabadi
Lahore

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2366(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	0.994	12	12.72	113	127	54.50	76.20	482	430	674	600	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Haji Najamudin Iron Store
Qaboola Bazar, Arifwala

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2367(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test
Sample Deformed Bar (Sheikhoo Steel)
Type: Steel

Test Specification: ASTM-A 615
Gauge Length: 200 m

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	m	%	
1	0.983	12	12.62	113	125	57.70	75.20	510	462	665	602	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Shahzad Arshad Iron Store
Khanewal Road Kabir Wala

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

Client Reference: Nil

Dated : 29-05-2023

SOM Lab Ref: CED/SOM/2368(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	3.856	25	25.00	491	491	249.70	320.00	509	509	652	652	35.0	200	17.5	
2	1.000	12	12.74	113	127	55.50	74.00	491	436	654	581	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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	

New Insaaf Steel
Gul Sons Peshawar

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2369(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	1.562	16	15.92	201	199	101.50	130.70	505	511	650	657	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Mashallah Steel Traders
Lahore

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2370(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	2.246	20	19.08	314	286	143.50	186.20	457	502	593	652	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Bhatti Iron Store
Hasilpur.

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2372(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	3.783	25	24.77	491	482	243.20	324.50	495	505	661	674	35.0	200	17.5	
2	1.003	12	12.76	113	128	65.20	84.50	576	511	747	662	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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	

Assistant Engineer (Civil) Test Performed By: Dr. /Engr. Asad Ali Gillani
 UET Lhr.(Const. Of Upper Floor Of Extension Building Of "Building and works deptt" Main Campus)

Client Reference: **B&W/EBW/11**
 Dated: 31-05-2023

SOM Lab
 Ref: 2345 (Page-1/1)
 Dated: 06-06-2023

Test: Tension Test & Bend Test
 Gauge Length: 8 h

Test Specification: ASTM-A-615
 Deformed Bar (AF Steel)
 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	1.534	6	0.758	0.44	0.451	16.77	21.17	84050	82000	106130	103540	1.30	8.0	16.3	
2	1.536	6	0.758	0.44	0.451	14.98	19.42	75110	73280	97340	94960	1.30	8.0	16.3	
3	0.672	4	0.501	0.20	0.197	6.95	8.74	76660	77830	96340	97800	1.30	8.0	16.3	
4	0.667	4	0.500	0.20	0.196	7.05	8.89	77790	79380	98020	100020	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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	

Ittefaq & Co
Faisalabad.

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

Client Reference: Nil

Dated : 06-06-2023

SOM Lab Ref: CED/SOM/2373(Page-1a/1)

Dated : 06-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	1.000	12	12.72	113	127	66.20	87.70	585	522	775	691	32.5	200	16.3	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

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

Muhammad Awais Khan

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

FM (Works Div) SUPARCO Office P.O.Punjab Uni.(Staff Hostel Paksat MM-1 at KSK)

Client Reference: 63301(01) Works/Div/SRDC-L

SOM Lab

Ref: 2347 (Page-1/1)

Dated: 30-03-2023

Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.478	6	0.743	0.44	0.434	15.90	20.20	79710	80810	101270	102670	1.30	8.0	16.3	
2	1.503	6	0.750	0.44	0.442	15.87	19.83	79560	79200	99380	98930	1.50	8.0	18.8	
3	0.671	4	0.501	0.20	0.197	6.47	8.28	71380	72470	91280	92670	1.30	8.0	16.3	
4	0.672	4	0.501	0.20	0.197	6.39	8.05	70480	71560	88800	90160	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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	

Taj M. Iron Store
Ameen Traders Center, Mian Channu

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

Client Reference: Nil
Dated: 06-06-2023

SOM Lab
Ref: 2350 (Page1b/1)
Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.483	6	0.745	0.44	0.436	13.86	18.83	69490	70130	94370	95240	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

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

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

Iqbal Iron Store
Purana Railway Road, Pakpattan

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

Client Reference: Nil
Dated: 06-06-2023

SOM Lab
Ref: 2351 (Page1b/1)
Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.514	6	0.753	0.44	0.445	13.66	18.62	68470	67700	93350	92300	1.50	8.0	18.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples

		Received and Tested

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

Qasir Brothers
Khanywal Road Bypass Jahania.

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

Client Reference: Nil
Dated: 29-05-2023

SOM Lab
Ref: 2352 (Page1b/1)
Dated: 06-06-2023

Test: Tension Test & Bend Test
 inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.502	6	0.749	0.444	0.441	14.78	19.57	74090	73920	98100	97880	1.30	8.0	16.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:-
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		Only Two Samples Received and Tested
Note: Please always confirm the results of above report on web www.uet-civil.edu.pk		

Bajwa Steel Traders
Lakar Mandi Pull, Chichawatni

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

Client Reference: Nil
Dated: 06-06-2023

SOM Lab
Ref: 2353 (Page1b/1)
Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.491	6	0.747	0.44	0.438	14.53	19.01	72810	73140	95290	95730	1.50	8.0	18.8	
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<u>BEND TEST:</u>															

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BEND TEST:														
# 6	Sample bend through 180 degrees Satisfactorily without any crack										Note:- Only Two Samples Received and Tested			

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

Karvan Steel Dealer
Lahore.

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

Client Reference: Nil

Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

SOM Lab
Ref: 2362 (Page1/1)
Dated: 06-06-2023

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.585	8	0.984	0.79	0.760	24.72	32.95	69010	71740	91980	95610	1.30	8.00	16.3	
2	1.490	6	0.747	0.44	0.438	13.71	18.22	68730	69040	91310	91730	1.50	8.00	18.8	
3	0.669	4	0.501	0.20	0.197	6.57	8.74	72510	73610	96340	97800	1.40	8.00	17.5	

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BEND TEST:														
# 6	Sample bend through 180 degrees Satisfactorily without any crack										Note:- 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														

Kamran Steel Traders
Peshawar City

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

Client Reference: Nil
Dated: 06-06-2023

SOM Lab
Ref: 2364 (Page1/1)
Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.653	8	0.997	0.79	0.780	24.82	33.51	69300	70190	93540	94740	1.50	8.0	18.8	

	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.67 7	8	1.00 1	0.7 9	0.78 7	26.45	34.27	73850	74130	95680	96040	1.5 0	8. 0	18. 8	
2	1.50 3	6	0.75 0	0.4 4	0.44 2	13.73	18.83	68830	68520	94370	93950	1.5 0	8. 0	18. 8	
3	0.67 2	4	0.50 1	0.2 0	0.19 7	6.47	8.53	71380	72470	94090	95520	1.4 0	8. 0	17. 5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Haji Najamudin Iron Store
Qaboola Bazar, Arifwala

Client Reference: Nil
Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

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

SOM Lab
Ref: 2367 (Page1b/1)
Dated: 06-06-2023

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Sheikhoo Steel)

S.No	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ult. Stress	Elon gati on	ge Len e	Elon gati	Rem arks
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		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	1.48 2	6	0.74 5	0.4 4	0.43 6	14.80	18.98	74190	74870	95140	96010	1.4 0	8. 0	17. 5		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

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

Shahzad Arshad Iron Store
Khanewal Road Kabir Wala

Client Reference: Nil
Dated: 29-05-2023

Test: Tension Test & Bend Test
Gauge Length: 8 h

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

SOM Lab
Ref: 2368 (Page1b/1)
Dated: 06-06-2023

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Sheikhoo Steel)

S.No	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ult. Stress	Elongation	Reduction in Length	Elongation	Remarks
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		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	1.49 3	6	0.74 8	0.4 4	0.43 9	14.50	18.83	72660	72820	94370	94590	1.4 0	8. 0	17. 5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

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

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

New Insaaf Steel
Gul Sons Peshawar

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

Client Reference: Nil
Dated: 06-06-2023

SOM Lab
Ref: 2369 (Page1b/1)
Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.775	8	1.019	0.79	0.816	24.46	35.27	68300	66130	98470	95330	1.60	8.0	20.0	
2	1.487	6	0.746	0.44	0.437	14.37	19.13	72050	72540	95910	96560	1.60	8.0	20.0	
3	0.672	4	0.501	0.20	0.197	6.57	8.56	72510	73610	94420	95860	1.30	8.0	16.3	
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BEND TEST:															
# 8	Sample bend through 180 degrees Satisfactorily without any crack										Note:- 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															

Mashallah Steel Traders
Lahore.

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

Client Reference: Nil

Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

SOM Lab

Ref: 2370 (Page-1b/1)

Dated: 06-06-2023

Test Specification:

ASTM-A-615

Sample Type:

Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.065	5	0.631	0.31	0.313	10.35	13.40	73610	72910	95370	94450	1.50	8.0	18.8	
2	0.670	4	0.501	0.20	0.197	6.60	8.63	72730	73840	95210	96660	1.30	8.0	16.3	
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<u>BEND TEST:</u>		
# 5	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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		

Norani Iron Store
Sangla Hill

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

Client Reference: Nil
Dated: 06-06-2023

SOM Lab
Ref: 2371 (Page-1/1)
Dated: 06-06-2023

Test: Tension Test & Bend Test
Gauge Length: 8 inc

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Sheikhoo Steel)

h

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	1.512	6	0.752	0.44	0.444	14.04	19.13	70360	69730	95910	95040	1.70	8.0	21.3	
2	1.038	5	0.623	0.31	0.305	8.89	13.93	63240	64280	99140	100760	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:															
# 6	Sample bend through 180 degrees Satisfactorily without any crack										Note:- Only Four Samples Received and Tested				
# 5	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

Bhatti Iron Store
Hasilpur

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

Client Reference: Nil

Dated: 06-06-2023

Test: Tension Test & Bend Test

SOM Lab

Ref: 2372 (Page-1b/1)

Dated: 06-06-2023

Test Specification:

ASTM-A-615

Gauge Length: 8 inc Sample Type: Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.664	6	0.789	0.44	0.489	14.42	20.10	72300	65060	100760	90660	1.70	8.0	21.3	
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BEND TEST:

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

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

Ittefaq & Co
Faisalabad.

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

Client Reference: Nil
Dated: 06-06-2023

SOM Lab
Ref: 2373 (Page1b/1)
Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615

Gauge Length: 8 h

Sample Type: Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.654	8	0.997	0.79	0.780	24.16	32.77	67450	68310	91490	92670	1.30	8.0	16.3	
2	1.487	6	0.746	0.44	0.437	14.73	18.88	73830	74340	94630	95280	1.50	8.0	18.8	
3	0.672	4	0.501	0.20	0.197	5.17	7.16	56990	57860	78910	80110	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Manohar Lal

Test Performed By: Dr. /Engr.

Nauman
Khurram

RE Nespak, Gujranwala (Const Of Dual Carriageway From GT Road to Lhr-Sialkot Motorway)

Client Reference: 103/EW/GRW/ML/Lab/01

SOM Lab

2375 (Page-1/1)

Dated: 05-06-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

Ref:

Dated: 06-06-2023

ASTM-A-615
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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.613	8	0.989	0.79	0.768	24.94	30.81	69640	71630	86000	88460	1.50	8.0	18.8	Pak
2	2.579	8	0.982	0.79	0.758	24.57	30.48	68590	71480	85090	88680	1.30	8.0	16.3	Pak
3	0.669	4	0.501	0.20	0.197	7.44	9.12	82060	83310	100610	102140	1.00	8.0	12.5	Mughal
4	0.667	4	0.500	0.20	0.196	7.41	9.17	81720	83390	101170	103230	1.00	8.0	12.5	Mughal
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Muhammad Arfat,RE

ACE-Arts (Consultants) UAEET Sambrial,Sialkot.(Estb Of UAEET Sambrial,Sialkot)

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Client Reference: ER/UAEET/ACE/ME/2023/10

Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2376 (Page-1/1)

Dated: 06-06-2023

ASTM-A-615
Deformed Bar (FF
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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.483	6	0.745	0.44	0.436	13.93	19.03	69850	70490	95400	96270	1.50	8.0	18.8	
2	1.494	6	0.748	0.44	0.439	13.91	19.03	69750	69910	95400	95610	1.30	8.0	16.3	
3	1.509	6	0.751	0.44	0.443	13.63	18.22	68320	67850	91310	90690	1.50	8.0	18.8	
4	1.500	6	0.749	0.44	0.441	13.43	18.04	67290	67140	90440	90230	1.50	8.0	18.8	
5	1.510	6	0.752	0.44	0.444	14.22	19.37	71280	70640	97080	96210	1.30	8.0	16.3	
6	1.581	6	0.769	0.44	0.465	15.67	21.76	78530	74310	109090	103220	1.20	8.0	15.0	
7	1.472	6	0.743	0.44	0.433	13.56	19.22	67960	69060	96320	97870	1.40	8.0	17.5	
8	1.433	6	0.732	0.44	0.421	13.17	18.83	66020	69000	94370	98630	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: M.Umair (ME ACE)

BEND TEST:

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

EPCM Consultants
Senior RE Nespak Sahiwal.(PICIIP)

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

Client Reference: 3976/11/MIA/SWL/Lot-3/01/139

SOM Lab

Ref: 2377 (Page-1/1)

Dated: 06-06-2023

Dated: 06-06-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Sheikhoo 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	6.27	8.66	69130	70190	95550	97000	1.30	8.0	16.3	
2	0.671	4	0.501	0.20	0.197	6.29	8.72	69360	70410	96110	97570	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

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

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