

Resident Engineer/Team Leader

Test Performed By:

Dr. /Engr.

Nauman Khurram

Prime Engineering Consultancy, Kallurkot Bridge Project

Client Reference: KK-DIK-BR-PJ/2021/222

Dated: 05-01-2021

SOM Lab Ref: CED/SOM/3558(Page-1/1)

Dated: 05-01-0221

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.857	12	11.78	113	109	53.00	82.50	469	487	729	757	27.5	200	13.8	
2	0.859	12	11.80	113	109	52.70	81.50	466	482	721	746	30.0	200	15.0	
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BEND TEST:

12mm 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

Altaf Hussain

Test Performed By: Dr. /Engr. Nauman Khurram

M. E. A.S. Enterprises, Consultant: AA Associates(Project: Style Textile Rewind 65 Check)

Client Reference: USD/ASE/25

Dated: 05-01-2021

SOM Lab Ref: CED/SOM/3560Page-1/1)

Dated: 05-01-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed (AFCO 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	3.910	25	25.18	491	498	275.20	369.00	561	553	752	741	30.0	200	15.0	
2	3.927	25	25.24	491	500	275.00	368.00	560	550	750	736	30.0	200	15.0	
3	2.441	20	19.90	314	311	159.00	201.00	506	512	640	647	35.0	200	17.5	
4	2.420	20	19.81	314	308	150.20	193.20	478	488	615	627	30.0	200	15.0	
5	1.602	16	16.12	201	204	114.00	142.00	567	559	706	696	30.0	200	15.0	
6	1.600	16	16.11	201	204	115.20	145.20	573	566	722	713	30.0	200	15.0	
7	0.921	12	12.22	113	117	63.20	82.00	559	539	725	700	22.5	200	11.3	
8	0.915	12	12.18	113	117	64.00	81.00	566	549	716	695	22.5	200	11.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Twelve Samples Received and Tested</p>
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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

Altaf Hussain

Test Performed By:

Dr. /Engr.

Nauman Khurram

M. E. A.S. Enterprises, Consultant: AA Associates(Project: Style Textile Managa)

Client Reference: USD/ASE/25

Dated: 05-01-2021

SOM Lab Ref: CED/SOM/3561(Page-1/1)

Dated: 05-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: M S Deformed (AFCO 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	3.702	25	24.52	491	472	210.00	288.00	428	445	587	611	40.0	200	20.0	
2	3.775	25	24.75	491	481	224.00	306.70	456	466	625	638	37.5	200	18.8	
3	2.493	20	20.11	314	318	174.50	225.70	555	550	718	711	32.5	200	16.3	
4	2.386	20	19.67	314	304	150.20	202.50	478	495	645	667	37.5	200	18.8	
5	1.536	16	15.78	201	196	79.70	113.00	396	408	562	578	47.5	200	23.8	
6	1.554	16	15.88	201	198	78.50	113.20	390	397	563	572	50.0	200	25.0	
7	0.903	12	12.10	113	115	70.00	89.50	619	609	791	778	25.0	200	12.5	
8	0.907	12	12.13	113	116	68.50	86.70	606	593	767	751	22.5	200	11.3	
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BEND TEST:

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

Syed Mohsin Ali
QA/QC, Department, Bahria Town, (Pvt) Ltd Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: QA/QC-Steel-2211

SOM Lab

Ref: 3559(Page-1/1)

Dated: 04-01-2021

Dated: 05-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Model 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	0.619	4	0.481	0.20	0.182	4.96	7.08	54750	60160	78130	85850	1.40	8.0	17.5	
2	0.592	4	0.471	0.20	0.174	4.28	6.39	47210	54270	70480	81010	1.50	8.0	18.8	
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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

Project Manager
Nazir & Sons Trust Building Construction Project, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: NST/MT/SR/UET/006

SOM Lab
Ref: 3562(Page-1/1)

Dated: 05-01-2020

Dated: 05-12-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed(Koh-e-Noor 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	0.621	4	0.481	0.20	0.182	5.35	8.15	59020	64850	89930	98820	1.00	8.0	12.5	
2	0.606	4	0.476	0.20	0.178	5.50	8.02	60700	68210	88470	99400	0.90	8.0	11.3	
3	0.616	4	0.480	0.20	0.181	6.27	8.69	69130	76390	95770	105830	1.00	8.0	12.5	
4	0.599	4	0.473	0.20	0.176	5.20	7.65	57330	65150	84310	95800	0.80	8.0	10.0	
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BEND TEST:

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

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

Resident Engineer,
JERS Engineering Consultant Dera Ghazi Khan

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 570-

Dated: 02-01-2021

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 3563(Page-1/1)

Dated: 05-01-2021

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	1.529	6	0.756	0.44	0.449	15.82	20.49	79300	77710	102700	100640	1.20	8.0	15.0	
2	1.537	8	0.759	0.79	0.452	15.24	20.13	42550	74360	56210	98230	1.30	8.0	16.3	
3	1.051	5	0.627	0.31	0.309	8.00	11.26	56930	57120	80140	80400	2.00	8.0	25.0	
4	1.058	5	0.629	0.31	0.311	8.07	11.26	57440	57260	80140	79880	1.90	8.0	23.8	
5	0.685	4	0.506	0.20	0.201	8.23	10.09	90720	90260	111290	110730	0.90	8.0	11.3	
6	0.679	4	0.505	0.20	0.200	7.49	9.70	82620	82620	107010	107010	1.00	8.0	12.5	
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Witnessed By:

Sohaib Ali, NESPAK

BEND TEST:

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

Assistant Resident Engineer
Enviro Consult Daska

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Enviro/ARE/DSK/2020/02

SOM Lab Ref: 3564(Page-1/1)

Dated: 18-11-2020

Dated: 05-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.652	4	0.494	0.20	0.192	6.39	9.23	70480	73420	101730	105970	1.50	8.0	18.8	
2	0.670	4	0.501	0.20	0.197	6.14	8.26	67670	68700	91050	92440	1.30	8.0	16.3	
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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

Muhammad Danial

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Construction Manader, Ortho Hospital 96-B, Hali Road Gulberg - II, Lahore

Client Reference: nil

SOM Lab

Ref:

3565(Page-1/1)

Dated: 05-01-2021

Dated:

05-01-2021

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	2.653	8	0.997	0.79	0.780	23.01	37.48	64230	65060	104640	105980	1.30	8.0	16.3	
2	2.650	8	0.996	0.79	0.779	22.83	37.46	63750	64650	104580	106060	1.50	8.0	18.8	
3	1.441	6	0.734	0.44	0.423	13.12	20.49	65760	68400	102700	106830	1.40	8.0	17.5	
4	1.439	6	0.734	0.44	0.423	13.10	20.39	65660	68300	102190	106300	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	

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

Nafiz OZCAN

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Inc. Lahore

Client Reference: MIG/2020/5

SOM Lab Ref: 3566(Page-1/1)

Dated: 04-01-2021

Dated: 05-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(AI-Moiz 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	2.633	8	0.993	0.79	0.774	23.31	35.29	65090	66430	98520	100560	1.60	8.0	20.0	
2	2.670	8	1.000	0.79	0.785	23.70	35.98	66170	66590	100460	101100	1.60	8.0	20.0	
3	0.593	4	0.471	0.20	0.174	5.40	7.54	59580	68480	83180	95610	1.30	8.0	16.3	
4	0.593	4	0.471	0.20	0.174	5.50	7.59	60700	69770	83750	96260	1.40	8.0	17.5	
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Witnessed By:

Sohaib Ali, Sub Engineer, NESPAK, and Muhammad Adil Assistant Project Manager, SA--RA Energy

BEND TEST:

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