

Fahad Gul,
Vice Construction Manager, (CEDC)

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

Client Reference: FW-002/TL/GD-003
SOM Lab Ref: CED/SOM/2707(Page-1/1)

Dated: 08-07-2020
Dated: 10-06-2020

Test: Tension & Bend Test
Sample Type: Deformed Steel Bar

Test Specification: ASTM-A 615
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	4.800	28	27.89	616	611	343.50	419.50	558	563	681	687	30.0	200	15.0	
2	4.734	28	27.71	616	603	325.20	406.50	528	540	660	675	27.5	200	13.8	
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BEND TEST:

28mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested
28mm	Sample bend through 180 degrees Satisfactorily without any crack	
22mm	Sample bend through 180 degrees Satisfactorily without any crack	
22mm	Sample bend through 180 degrees Satisfactorily without any crack	
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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/ 20200610-A-A

SOM Lab
Ref: 2555(Page-1/1)

Dated: 10-06-2020

Dated: 10-06-2020

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	1.554	6	0.763	0.44	0.457	15.29	19.16	76640	73790	96060	92490	1.30	8.0	16.3	
2	1.524	6	0.755	0.44	0.448	14.88	19.37	74600	73270	97080	95350	1.30	8.0	16.3	
3	1.527	6	0.756	0.44	0.449	14.29	18.91	71640	70200	94780	92880	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

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

Muhammad Faizan
 Project Engineer NETRACON Technologies (Pvt) Ltd., Lahore

Test Performed By: Dr. /Engr.

S Asad Ali Gillani

Client Reference: NTT-HO/FSDW-GS/013

SOM Lab 2556-2557 (Page-1/1)
 Ref:

Dated: 09-06-2020

Dated: 10-06-2020

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	2.699	8	1.005	0.79	0.793	28.61	35.32	79880	79580	98610	98230	1.20	8.0	15.0	
2	2.682	8	1.002	0.79	0.788	28.03	34.91	78260	78460	97470	97720	1.30	8.0	16.3	
3	1.504	6	0.750	0.44	0.442	14.16	18.86	70970	70650	94530	94100	1.00	8.0	12.5	
4	1.510	6	0.752	0.44	0.444	14.70	20.10	73680	73020	100760	99850	1.20	8.0	15.0	
5	1.067	5	0.632	0.31	0.314	9.76	15.57	69410	68520	110740	109330	1.20	8.0	15.0	
6	1.067	5	0.632	0.31	0.314	9.79	15.41	69620	68740	109650	108260	1.10	8.0	13.8	
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BEND TEST:

# 8(Sr 1&2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 6(Sr 3&4)	Sample bend through 180 degrees Satisfactorily without any crack	
# 5(Sr 5&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

Muhammad Faizan
Project Engineer NETRACON Technologies (Pvt) Ltd., Lahore

Test Performed By: Dr. /Engr.

S Asad Ali Gillani

Client Reference: NTT-HO/FSDW-GS/013

SOM Lab
Ref:

2556-2557(Page-1/1)

Dated: 09-06-2020

Dated:

10-06-2020

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	2.699	8	1.005	0.79	0.793	28.61	35.32	79880	79580	98610	98230	1.20	8.0	15.0	
2	2.682	8	1.002	0.79	0.788	28.03	34.91	78260	78460	97470	97720	1.30	8.0	16.3	
3	1.504	6	0.750	0.44	0.442	14.16	18.86	70970	70650	94530	94100	1.00	8.0	12.5	
4	1.510	6	0.752	0.44	0.444	14.70	20.10	73680	73020	100760	99850	1.20	8.0	15.0	
5	1.067	5	0.632	0.31	0.314	9.76	15.57	69410	68520	110740	109330	1.20	8.0	15.0	
6	1.067	5	0.632	0.31	0.314	9.79	15.41	69620	68740	109650	108260	1.10	8.0	13.8	
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BEND TEST:

# 8(Sr 1&2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 6(Sr 3&4)	Sample bend through 180 degrees Satisfactorily without any crack	
# 5(Sr 5&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

Muhammad Waqas Anwar
Resident Engineer-I, NESPAK, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 3772/FMU/103/MWA/04/18

SOM Lab

Ref: 2556(Page-1/1)

Dated: 09-06-2019

Dated: 10-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar(SJ
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	2.657	8	0.997	0.79	0.781	29.15	38.09	81390	82330	106350	107570	1.10	8.0	13.8	
2	2.643	8	0.995	0.79	0.777	27.82	36.82	77660	78960	102790	104510	1.20	8.0	15.0	
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BEND TEST:

# 8	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

Hassan Saeed
 Accounts and Customs Department, SA-RA Group, Energy Construction Trade and Industry Co Inc.
 Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: MIG/2020/632

SOM Lab Ref: 2559(Page-2/2)

Dated: 09-06-2020

Dated: 10-06-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala Premium)

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	2.591	8	0.984	0.79	0.761	18.35	28.70	51230	53180	80110	83160	2.00	8.0	25.0	
2	2.597	8	0.986	0.79	0.763	18.50	28.49	51650	53480	79540	82360	2.00	8.0	25.0	
3	1.984	7	0.862	0.60	0.583	14.78	23.47	54330	55920	86260	88770	2.20	8.0	27.5	
4	1.975	7	0.859	0.60	0.580	14.39	21.99	52910	54730	80820	83610	2.00	8.0	25.0	
5	1.970	7	0.859	0.60	0.579	14.37	21.99	52840	54750	80820	83760	2.20	8.0	27.5	
6	1.926	6	0.849	0.44	0.566	13.63	21.41	68320	53110	107300	83410	1.80	8.0	22.5	
7	1.927	6	0.849	0.44	0.566	13.66	21.15	68470	53230	106020	82420	1.90	8.0	23.8	
8	0.656	4	0.496	0.20	0.193	5.37	7.51	59240	61390	82850	85850	1.70	8.0	21.3	
9	0.649	4	0.493	0.20	0.191	5.25	7.51	57890	60620	82850	86750	1.90	8.0	23.8	
10	0.656	4	0.496	0.20	0.193	5.30	7.56	58460	60580	83410	86430	1.70	8.0	21.3	

Witnessed By: Engr. Talha, NESPAK (Pvt) Ltd.

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Sixteen Samples Received and Tested
# 7	Sample bend through 180 degrees Satisfactorily without any crack	
# 7(Sr 4&5)	Sample bend through 180 degrees Satisfactorily without any crack	
# 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

Hassan Saeed

Accounts and Customs Department, SA-RA Group, Energy Construction Trade and Industry Co Inc. Lahore

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Client Reference: MIG/2020/532

SOM Lab Ref: 2559(Page-1/2)

Dated: 09-06-2020

Dated: 10-06-2020

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.573	8	0.981	0.79	0.756	24.13	35.49	67360	70390	99090	103550	1.40	8.0	17.5	
2	2.579	8	0.982	0.79	0.758	24.46	35.83	68300	71180	100030	104250	1.40	8.0	17.5	
3	2.584	8	0.983	0.79	0.759	23.90	34.63	66740	69460	96670	100620	1.30	8.0	16.3	
4	1.508	6	0.751	0.44	0.443	12.64	19.54	63360	62930	97950	97290	1.40	8.0	17.5	
5	1.471	6	0.742	0.44	0.432	12.54	19.44	62850	64010	97440	99240	1.30	8.0	16.3	
6	1.488	6	0.746	0.44	0.437	14.02	20.97	70260	70740	105100	105820	1.20	8.0	15.0	
7	0.671	4	0.501	0.20	0.197	5.73	8.58	63180	64140	94650	96090	1.40	8.0	17.5	
8	0.672	4	0.501	0.20	0.197	5.78	8.69	63740	64710	95770	97230	1.20	8.0	15.0	
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Witnessed By:

Engr. Talha, NESPAK (Pvt) Ltd.

BEND TEST:

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