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

Design Manager, Stallion Engineering (SRA Gate House DHA Multan)

Client Reference: DHA/MG/223/MT/02 **Dated:** 15-01-2021

SOM Lab Ref: CED/SOM/3766 (Page-1/1) **Dated:** 02-02-2021

Test: Tension Test **Test Specification:** ASTM-A-615

Sample Type: M S 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^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.516	20	20.22	314	321	122.00	178.00	388	381	567	555	27.5	200	13.8	
2	2.468	20	20.01	314	314	118.70	173.50	378	378	552	552	30.0	200	15.0	
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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

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

Resident Engineer, Asif Ali & Associates (Pvt) Ltd. Lahore

Client Reference: THDP/RE/01/640 **Dated:** 04-01-2021

SOM Lab Ref: CED/SOM/3767(Page-1/1) **Dated:** 02-02-2021

Test: Tension and Bend Test **Test Specification:** ASTM-A 615

Sample Type: Deformed Bar(FF 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	1.698	16	16.58	201	216	110.50	152.50	550	512	758	707	30.0	200	15.0	
2	1.665	16	16.43	201	212	100.20	148.70	498	473	740	702	32.5	200	16.3	
3	0.950	12	12.41	113	121	57.00	78.20	504	472	691	647	27.5	200	13.8	
4	0.946	12	12.39	113	121	56.70	77.40	501	471	684	643	25.0	200	12.5	
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BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

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

Coordination Engineer, IZHAR Construction (Pvt) Ltd. ahore

Client Reference: ICPL/CONST-NML/21/004 **Dated:** 02-02-2021

SOM Lab Ref: CED/SOM/3770(Page-1/1) **Dated:** 02-02-2021

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^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.872	25	25.05	491	493	227.70	337.70	464	462	688	685	37.5	200	18.8	
2	3.916	25	25.20	491	499	227.70	337.50	464	457	688	677	32.5	200	16.3	
3	2.449	20	19.93	314	312	156.50	198.20	498	502	631	636	30.0	200	15.0	
4	2.592	20	20.50	314	330	163.00	198.70	519	494	632	602	25.0	200	12.5	
5	1.575	16	15.99	201	201	89.00	116.50	443	444	579	581	30.0	200	15.0	
6	1.572	16	15.97	201	200	108.00	134.50	537	540	669	672	27.5	200	13.8	
7	0.905	12	12.12	113	115	61.00	81.00	539	530	716	703	25.0	200	12.5	
8	0.952	12	12.43	113	121	66.20	88.20	585	546	780	727	30.0	200	15.0	
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BEND TEST:

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

Only Twelve Samples Received and Tested

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

Furqan Ali Malik
Cgief Resident Engineer NESPAK

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

Client Reference: nil **Dated:** 01-02-2021
SOM Lab Ref: CED/SOM/3771 (Page-1/1) **Dated:** 02-02-2021
Test: Tension Test **Test Specification:** ASTM-F-1554
Sample Type: J Bolt **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	4.132	25	25.88	491	526	198.00	291.20	403	377	593	554	30.0	100	30.0	
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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

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

Resident Engineer, ACES, Site Office, RGC DHA Multan, (Rumanza Golf Course)

Client Reference: ACES-DHAM-GCRR-273 **Dated:** 01-02-2021

SOM Lab Ref: CED/SOM/3776 (Page-1/1) **Dated:** 02-02-2021

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: Deformed Bar(FF 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	2.132	20	18.61	314	272	143.20	194.70	456	527	620	716	25.0	200	12.5	
2	2.136	20	18.61	314	272	143.70	195.20	457	529	621	718	27.5	200	13.8	
3	1.538	16	15.79	201	196	97.90	136.20	487	500	677	696	27.5	200	13.8	
4	1.541	16	15.81	201	196	100.20	138.50	498	511	689	706	30.0	200	15.0	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Kamran Sandhu
Material Engineer, DHA Multan

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

Client Reference: 701/97/P&D/DHA **Dated:** 02-02-2021
SOM Lab Ref: CED/SOM/3777 (Page-1/1) **Dated:** 02-02-2021
Test: Tension Test **Test Specification:** ASTM-F-1554
Sample Type: Anchor Bolt **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	3.981	25	25.41	491	507	196.70	299.70	401	388	611	592	42.5	200	21.3	
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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

Sajid Khawaja
Resident Engineer, EA Consulting (Pvt) Ltd.

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

Client Reference: EA/FGEHA/LHE/093
Dated: 02-02-2021

SOM Lab Ref: 3763(Page-1/1)
Dated: 02-02-2021

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

Test Specification: ASTM-A-615
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	2.657	8	0.997	0.79	0.781	27.32	35.70	76270	77150	99660	100810	1.00	8.0	12.5	
2	2.642	8	0.994	0.79	0.776	30.22	37.31	84380	85900	104160	106040	1.00	8.0	12.5	
3	2.666	8	0.998	0.79	0.783	29.05	37.41	81110	81830	104440	105380	1.20	8.0	15.0	
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BEND TEST:

# 8	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

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

Q-Links Property Management Pvt. Ltd (Const. at Bronalway Height-3)

Client Reference: nil **SOM Lab Ref:** 3764(Page-1/1)

Dated: 13-01-2021 **Dated:** 01-02-2021

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	2.646	8	0.995	0.79	0.778	25.86	38.63	72200	73310	107860	109520	1.10	8.0	13.8	
2	1.475	6	0.743	0.44	0.433	14.73	19.44	73830	75030	97440	99010	1.50	8.0	18.8	
3	0.681	4	0.505	0.20	0.200	6.70	9.38	73850	73850	103420	103420	1.40	8.0	17.5	
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BEND TEST:

# 8	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:-

Only Six Samples Received and Tested

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

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

Design Manager, Stallion Engineering (SRA Gate House DHA Multan)

Client Reference: DHA/MG/223/MT/02 **SOM Lab Ref:** 3766 (Page-1/1)

Dated: 15-01-2021 **Dated:** 02-02-2021

Test: Tension 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	1.466	6	0.741	0.44	0.431	13.99	19.37	70100	71570	97080	99110	1.30	8.0	16.3	
2	1.098	5	0.641	0.31	0.323	11.47	14.63	81590	78310	104070	99880	1.00	8.0	12.5	
3	0.586	4	0.468	0.20	0.172	6.39	8.18	70480	81960	90150	104830	1.10	8.0	13.8	
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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

Shoaib Riaz
Project Incharge, Royal Orchard Sahiwal

Test Performed By: **Dr. /Engr.** S. Asas Ali Gillani

Client Reference: HRL/ROS/2021/062
Dated: 03-02-2021

SOM Lab Ref: 3768(Page-1/1)
Dated: 03-02-2021

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (PAK 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	1.526	6	0.755	0.44	0.448	14.78	19.08	74090	72770	95650	93940	1.50	8.0	18.8	
2	1.522	6	0.754	0.44	0.447	14.85	19.03	74450	73280	95400	93900	1.40	8.0	17.5	
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BEND TEST:

# 6	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 Awais Khan **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

FM (Works Div) Suparco Office, P. O. Punjab University Samsani Road Lahore

Client Reference: 63301(3600)Works/Div/SRDC **SOM Lab Ref:** 3769(Page-1/1)

Dated: 12-01-2021 **Dated:** 02-02-2021

Test: Tension 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	2.568	8	0.980	0.79	0.755	35.27	39.55	98470	103030	110420	115540	1.00	8.0	12.5	
2	2.564	8	0.980	0.79	0.754	32.21	36.39	89930	94220	101600	106450	1.00	8.0	12.5	
3	0.666	4	0.500	0.20	0.196	5.86	8.72	64640	65960	96110	98070	1.30	8.0	16.3	
4	0.665	4	0.498	0.20	0.195	5.78	8.69	63740	65370	95770	98230	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 4	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

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

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

Client Reference: MIG/2021/89 **SOM Lab Ref:** 3772(Page-1/1)

Dated: 02-02-2021 **Dated:** 02-02-2021

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar(SJ 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	0.545	4	0.451	0.20	0.160	5.78	7.08	63740	79670	78130	97660	1.10	8.0	13.8	
2	0.532	4	0.446	0.20	0.156	6.47	7.97	71380	91510	87910	112700	1.00	8.0	12.5	
3	0.543	4	0.451	0.20	0.160	6.27	7.87	69130	86420	86780	108480	1.00	8.0	12.5	
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Witnessed By: Zohaib Ali, Sub Engineer, NESPAK

BEND TEST:

# 4	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:-

Only Six Samples Received and Tested

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

Maj Adnan khalid®

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

Dy Dir MTL, Const. of Entry Gate Towards Ring Road Sector-F, Prism-9, (M/S NA Associates)

Client Reference: 408/241/E/Lab/23/85

Dated: 01- 02-2021

SOM Lab Ref: 3773(Page-1/1)

Dated: 02-02-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (AF 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	0.651	4	0.493	0.20	0.191	6.73	8.87	74190	77690	97800	102400	1.40	8.0	17.5	
2	0.650	4	0.493	0.20	0.191	6.54	8.69	72170	75570	95770	100290	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 Faizan **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

Project Engineer, NETRACON Technologies (Pvt) Ltd. Lahore

Client Reference: NTT-HO/FSDW-GS/042 **SOM Lab Ref:** 3774(Page-1/1)

Dated: 02-02-2021 **Dated:** 02-02-2021

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.665	4	0.498	0.20	0.195	6.19	8.63	68230	69980	95210	97650	1.20	8.0	15.0	
2	0.659	4	0.497	0.20	0.194	6.39	8.89	70480	72660	98020	101050	1.10	8.0	13.8	
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Witnessed By: Sohaib Ali, Sub Engineer, NESPAK

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack
# 4	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