Usman Ibrahim Construction **Test Performed By:** **Dr. /Engr.** Nauman Khurram
Lahore.(Const Of HIGH-Q Mall at 3-A Gulberg II,Lahore)

Client Reference: QC/HQ/CIVIL/013 **Dated:** 15-08-2022
SOM Lab Ref: CED/SOM/751(Page-1/1) **Dated:** 16-08-2022
Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615
Sample Type: MS 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	1.547	16	15.84	201	197	98.20	142.00	488	499	706	721	30.0	200	15.0	
2	1.560	16	15.91	201	199	100.50	146.20	500	506	727	736	30.0	200	15.0	
3	0.883	12	11.97	113	112	62.50	82.00	553	556	725	730	22.5	200	11.3	
4	0.879	12	11.94	113	112	63.00	81.20	557	563	718	725	20.0	200	10.0	
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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

Engr Ameen Firdous
Civil Engineer & Tech. Prime Builders Lahore.

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

Client Reference: 0396
Dated: 15-08-2022

SOM Lab Ref: 745 (Page-1/1)
Dated: 15-08-2022

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	2.354	8	0.939	0.79	0.692	20.66	32.39	57690	65860	90410	103220	1.30	8.0	16.3	
2	2.560	8	0.979	0.79	0.752	20.66	32.36	57690	60600	90360	94920	1.40	8.0	17.5	
3	1.479	6	0.744	0.44	0.435	12.28	19.37	61570	62280	97080	98200	1.40	8.0	17.5	
4	1.466	6	0.741	0.44	0.431	12.15	19.24	60910	62180	96420	98430	1.30	8.0	16.3	
5	0.632	4	0.487	0.20	0.186	5.37	8.18	59240	63700	90150	96940	1.40	8.0	17.5	
6	0.626	4	0.484	0.20	0.184	5.27	7.95	58120	63170	87680	95300	1.30	8.0	16.3	
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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 Nine Samples Received and Tested

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

Engr. Hassan Munir **Test Performed By:** **Dr. /Engr.** Nauman Khurram

CM Zameen Aurum,(Construction Of Zameen Aurum at Plot No.15 Block L,Gulberg-III Lahore)

Client Reference: ZD/ZA/STR027 **SOM Lab Ref:** 746 (Page-1/1)

Dated: 15-08-2022 **Dated:** 16-08-2022

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	0.672	4	0.501	0.20	0.197	6.29	8.36	69360	70410	92180	93580	1.20	8.0	15.0	
2	0.671	4	0.501	0.20	0.197	6.37	8.58	70260	71330	94650	96090	1.20	8.0	15.0	
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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 Nasim AE B&R **Test Performed By:** **Dr. /Engr.** Nauman Khurram

GE(Army)-II LRC.(Const Of 8x Sldrs Flats,HQ 212 IABG at Lhr, 8x JCOs Flats,AAD Elms Walton Lhr)

Client Reference: 6003/151/E-6 **SOM Lab Ref:** 747 (Page-1/4)

Dated: 15-04-2022 **Dated:** 16-08-2022

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	1.454	6	0.737	0.44	0.427	12.90	21.12	64640	66610	105870	109090	1.30	8.0	16.3	
2	0.651	4	0.493	0.20	0.191	6.01	9.65	66320	69450	106450	111470	1.40	8.0	17.5	
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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

Muhammad Nasim AE B&R **Test Performed By:** **Dr. /Engr.** Nauman Khurram

GE(Army)-II LRC.(Const Of 8x Sldrs Flats,HQ 212 IABG at Lhr, 8x JCOs Flats,AAD Elms Walton Lhr)

Client Reference: 6003/151/E-6 **SOM Lab Ref:** 747 (Page-2/4)

Dated: 15-04-2022 **Dated:** 16-08-2022

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	1.509	6	0.751	0.44	0.443	11.67	18.50	58510	58110	92740	92110	1.70	8.0	21.3	
2	0.642	4	0.491	0.20	0.189	5.61	8.82	61830	65430	97230	102890	1.60	8.0	20.0	
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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

Muhammad Nasim AE B&R **Test Performed By:** **Dr. /Engr.** Nauman Khurram

GE(Army)-II LRC.(Const Of 8x Sldrs Flats,HQ Sig Corps at Lhr, 8x Sldrs Flats,AAD Elms Walton Lhr)

Client Reference: 6003/152/E-6 **SOM Lab Ref:** 747 (Page-3/4)

Dated: 15-04-2022 **Dated:** 16-08-2022

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	1.487	6	0.746	0.44	0.437	11.37	18.35	56970	57360	91970	92600	1.50	8.0	18.8	
2	0.636	4	0.488	0.20	0.187	5.56	8.61	61270	65520	94990	101590	1.30	8.0	16.3	
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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

Muhammad Nasim AE B&R **Test Performed By:** **Dr. /Engr.** Nauman Khurram

GE(Army)-II LRC.(Const Of 8x Sldrs Flats,HQ Sig Corps at Lhr, 8x Sldrs Flats,AAD Elms Walton Lhr)

Client Reference: 6003/152/E-6 **SOM Lab Ref:** 747 (Page-4/4)

Dated: 15-04-2022 **Dated:** 16-08-2022

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	1.458	6	0.738	0.44	0.428	12.95	21.66	64890	66710	108580	111620	1.20	8.0	15.0	
2	0.653	4	0.494	0.20	0.192	5.98	9.55	65990	68740	105330	109720	1.20	8.0	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

Engr Main Hammad Tariq **Test Performed By:** **Dr. /Engr.** Nauman Khurram

PM Zain Electric Company,Lahore.(NTDC-220kV G/S Daudhkhel)

Client Reference: ZEC/SIE/NTDC/UET/Daudkhel/2022-004 **SOM Lab Ref:** 748 (Page-1/1)

Dated: 15-08-2022 **Dated:** 16-08-2022

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	2.722	8	1.009	0.79	0.800	22.73	34.00	63460	62670	94910	93720	1.80	8.0	22.5	
2	2.705	8	1.006	0.79	0.795	22.29	33.03	62240	61850	92210	91630	1.70	8.0	21.3	
3	1.536	6	0.758	0.44	0.451	13.17	19.39	66020	64410	97180	94810	1.50	8.0	18.8	
4	1.534	6	0.758	0.44	0.451	13.15	19.72	65910	64310	98870	96460	1.60	8.0	20.0	
5	1.073	5	0.633	0.31	0.315	9.89	14.44	70350	69230	102760	101130	1.70	8.0	21.3	
6	1.069	5	0.632	0.31	0.314	9.86	14.24	70130	69240	101310	100020	1.30	8.0	16.3	
7	0.700	4	0.512	0.20	0.206	6.65	9.07	73290	71160	100050	97130	1.60	8.0	20.0	
8	0.696	4	0.511	0.20	0.205	6.60	9.02	72730	70960	99480	97060	1.60	8.0	20.0	
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Witnessed By: Sohaib Ali, Nespak (Sub Engineer)

BEND TEST:

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

Muhammad Irfan
Project Engr. DHA Gujranwala.(Peackage 1A)

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

Client Reference: 111/15/PE/RS/Pkg-1/564
Dated: 05-08-2022

SOM Lab Ref: 749 (Page-1/2)
Dated: 16-08-2022

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

Test Specification: ASTM-A-615
Sample Type: 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	2.630	8	0.992	0.79	0.773	23.45	32.74	65460	66900	91410	93420	1.20	8.0	15.0	
2	2.641	8	0.994	0.79	0.776	23.65	32.77	66020	67220	91490	93140	1.30	8.0	16.3	
3	1.362	6	0.714	0.44	0.400	13.05	18.32	65400	71940	91820	101000	1.40	8.0	17.5	
4	1.511	6	0.752	0.44	0.444	13.99	19.83	70100	69470	99380	98490	1.30	8.0	16.3	
5	0.678	4	0.503	0.20	0.199	6.85	9.14	75540	75920	100830	101340	1.20	8.0	15.0	
6	0.677	4	0.503	0.20	0.199	6.80	9.02	74980	75360	99480	99980	1.20	8.0	15.0	
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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 Nine Samples Received and Tested

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

Engr. Muhammad Irshad
Asst Dir (Infra Dev) DHA Gujranwala.(Sector C)

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

Client Reference: 111/15/PE/RS/Pkg-2A/527
Dated: 15-08-2022

SOM Lab Ref: 749 (Page-2/2)
Dated: 16-08-2022

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

Test Specification: ASTM-A-615
Sample Type: 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	2.625	8	0.991	0.79	0.771	27.17	34.58	75840	77710	96530	98910	1.30	8.0	16.3	
2	2.683	8	1.002	0.79	0.788	23.72	33.25	66220	66390	92830	93070	1.40	8.0	17.5	
3	0.634	4	0.487	0.20	0.186	5.45	7.77	60140	64670	85660	92100	1.20	8.0	15.0	
4	0.636	4	0.488	0.20	0.187	5.50	7.72	60700	64920	85100	91010	1.40	8.0	17.5	
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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 Six Samples Received and Tested

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

Engr. Muhammad Irshad
Asst Dir (Infra Dev) DHA Gujranwala.(Sector G)

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: 111/15/PE/RS/Pkg-2B/644
Dated: 13-08-2022

SOM Lab Ref: 750 (Page-1/1)
Dated: 16-08-2022

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Union 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	2.607	8	0.988	0.79	0.766	25.59	34.02	71430	73670	94970	97940	1.20	8.0	15.0	
2	2.604	8	0.987	0.79	0.765	25.33	33.79	70720	73030	94340	97420	1.30	8.0	16.3	
3	1.518	6	0.754	0.44	0.446	12.51	17.55	62700	61850	87990	86800	1.60	8.0	20.0	
4	1.503	6	0.750	0.44	0.442	13.93	18.83	69850	69530	94370	93950	1.30	8.0	16.3	
5	0.717	4	0.518	0.20	0.211	7.24	9.09	79810	75650	100270	95040	1.00	8.0	12.5	
6	0.687	4	0.507	0.20	0.202	6.63	8.79	73070	72340	96900	95940	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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 Nine Samples Received and Tested

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

Shifa Developments Services. **Test Performed By:** **Dr. /Engr.** Nauman Khurram
Senior Project Manager, Shifa National Hospital, Lahore Skp Road,Faisalabad)

Client Reference: SNHF/SDS/ST/08 **SOM Lab Ref:** 753 (Page-1/1)
Dated: 16-08-2022 **Dated:** 16-08-2022

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	2.689	8	1.003	0.79	0.790	23.75	32.87	66310	66310	91780	91780	1.40	8.0	17.5	Kamran
2	2.695	8	1.004	0.79	0.792	23.80	32.74	66450	66280	91410	91180	1.30	8.0	16.3	Kamran
3	1.429	6	0.731	0.44	0.420	11.77	18.09	59020	61830	90690	95010	1.30	8.0	16.3	SGI
4	1.438	6	0.734	0.44	0.423	11.79	18.50	59120	61500	92740	96470	1.30	8.0	16.3	SGI
5	0.661	4	0.497	0.20	0.194	5.93	7.85	65420	67450	86560	89230	1.00	8.0	12.5	Kamran
6	0.652	4	0.494	0.20	0.192	5.96	7.87	65760	68500	86780	90400	1.00	8.0	12.5	Kamran
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Note:-

Only Nine Samples Received and Tested

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