Tanvir Hussain **Test Performed By:** **Dr. /Engr.** **M Irfan Ul Hassan**

Resident Engineer, NESPAK (Pvt) Ltd. PKG-01, ISLAMABAD

Client Reference: **36267/103/TH/01/61** **SOM Lab Ref:** **1206(Page-1/1)**

Dated: **30-07-2019** **Dated:** **31-07-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615 Deformed Bar(Mujahid 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	1.055	5	0.628	0.31	0.310	10.75	15.62	76510	76510	111100	111100	1.20	8.0	15.0	
2	1.012	5	0.615	0.31	0.297	9.33	13.37	66360	69260	95150	99310	1.40	8.0	17.5	
3	0.637	4	0.488	0.20	0.187	5.58	8.23	61490	65760	90720	97020	1.40	8.0	17.5	
4	0.640	4	0.489	0.20	0.188	5.61	8.23	61830	65770	90720	96510	1.20	8.0	15.0	
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Witnessed By: Muhammad Khalid Masood, NESPAK & M. Ishtiaq, Meterocone.

BEND TEST:

# 5	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

Agha Hassan Ali
SQNLDR, GE (AIR) Rafiqui

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

Client Reference: **6037/21/E-6**
Dated: **02-07-2019**

SOM Lab Ref: **1207 (Page-1/8)**
Dated: **31-07-2019**

Test: **Tension Test**
Guage 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	0.662	4	0.498	0.20	0.195	6.12	8.26	67450	69180	91050	93390	1.00	8.0	12.5	
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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

Agha Hassan Ali
SQNLDR, GE (AIR) Rafiqui

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

Client Reference: **6037/21/E-6**
Dated: **02-07-2019**

SOM Lab Ref: **1207 (Page-2/8)**
Dated: **31-07-2019**

Test: **Tension Test**
Guage 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	0.528	4	0.444	0.20	0.155	4.35	6.60	48000	61940	72730	93840	1.00	8.0	12.5	
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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

Agha Hassan Ali
SQN LDR, GE (AIR) Rafiqui

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

Client Reference: **6223/38/E-6**
Dated: **10-06-2019**

SOM Lab Ref: **1207 (Page-3/8)**
Dated: **31-07-2019**

Test: **Tension Test**
Guage 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	2.585	8	0.984	0.79	0.760	27.88	34.22	77830	80910	95530	99310	1.10	8.0	13.8	
2	1.502	6	0.749	0.44	0.441	15.19	20.41	76130	75960	102290	102060	1.20	8.0	15.0	
3	1.022	5	0.618	0.31	0.300	8.74	14.02	62150	64230	99720	103040	1.20	8.0	15.0	
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BEND TEST:

--	No Bend test performed

Note:-

Only Three Samples Received and Tested

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

Agha Hassan Ali
SQN LDR, GE (AIR) Rafiqui

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

Client Reference: **6223/38/E-6**
Dated: **10-06-2019**

SOM Lab Ref: **1207 (Page-4/8)**
Dated: **31-07-2019**

Test: **Tension Test**
Guage 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	0.646	4	0.492	0.20	0.190	7.19	8.94	79250	83420	98580	103770	1.00	8.0	12.5	
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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

Agha Hassan Ali
SQN LDR, GE (AIR) Rafiqui

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

Client Reference: **6261/22/E-6**
Dated: **10-06-2019**

SOM Lab Ref: **1207 (Page-5/8)**
Dated: **31-07-2019**

Test: **Tension Test**
Guage 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	0.666	4	0.500	0.20	0.196	6.12	8.26	67450	68820	91050	92910	1.10	8.0	13.8	
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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

Agha Hassan Ali
SQN LDR, GE (AIR) Rafiqui

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

Client Reference: **6261/22/E-6**
Dated: **10-06-2019**

SOM Lab Ref: **1207 (Page-6/8)**
Dated: **31-07-2019**

Test: **Tension Test**
Guage 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	1.486	6	0.746	0.44	0.437	18.09	21.78	90690	91320	109190	109940	0.90	8.0	11.3	
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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

Agha Hassan Ali
SQN LDR, GE (AIR) Rafiqui

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

Client Reference: **6177/18/E-6**
Dated: **10-06-2019**

SOM Lab Ref: **1207 (Page-7/8)**
Dated: **31-07-2019**

Test: **Tension Test**
Guage 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	0.661	4	0.497	0.20	0.194	6.03	8.21	66550	68610	90490	93290	1.20	8.0	15.0	
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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

Agha Hassan Ali
SQN LDR, GE (AIR) Rafiqui

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

Client Reference: **6177/18/E-6**
Dated: **10-06-2019**

SOM Lab Ref: **1207 (Page-8/8)**
Dated: **31-07-2019**

Test: **Tension Test**
Guage 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	1.499	8	0.749	0.79	0.441	13.05	20.80	36430	65260	58060	104000	1.10	8.0	13.8	
2	0.633	4	0.487	0.20	0.186	4.54	6.90	50030	53790	76100	81830	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

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

Ittefaq Building Solutions (Pvt) Ltd. Lahore

Client Reference: **LTR # Superior House/01** **SOM Lab Ref:** **1208(Page-1/1)**

Dated: **31-07-2019** **Dated:** **31-07-2019**

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	2.639	8	0.994	0.79	0.776	28.82	35.78	80450	81900	99890	101690	1.10	8.0	13.8	
2	1.482	6	0.745	0.44	0.436	16.99	20.54	85180	85960	102960	103900	1.00	8.0	12.5	
3	0.758	4	0.533	0.20	0.223	7.29	11.21	80370	72090	123650	110900	0.90	8.0	11.3	
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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 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, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

Client Reference: **408/241/E/Lab/654/3264** **SOM Lab Ref:** **1209(Page-1/1)**

Dated: **29-07-2019** **Dated:** **31-07-2019**

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	1.480	6	0.744	0.44	0.435	13.22	18.50	66270	67030	92740	93800	1.30	8.0	16.3	
2	1.476	6	0.743	0.44	0.434	13.32	18.60	66780	67710	93250	94540	1.20	8.0	15.0	
3	0.652	4	0.494	0.20	0.192	6.70	8.53	73850	76930	94090	98010	1.10	8.0	13.8	
4	0.648	4	0.492	0.20	0.190	6.49	8.53	71610	75380	94090	99040	1.00	8.0	12.5	
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BEND TEST:

# 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

Assistant Engineer-III,
Pakistan Railways, Lahore

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

Client Reference: **Nil**
Dated: **Nil**

SOM Lab Ref: **1211(Page-1/1)**
Dated: **31-07-2019**

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	2.620	8	0.990	0.79	0.770	25.56	36.00	71350	73200	100510	103130	1.50	8.0	18.8	
2	2.634	8	0.993	0.79	0.774	25.50	36.00	71200	72680	100510	102590	1.30	8.0	16.3	
3	1.490	6	0.747	0.44	0.438	13.71	17.48	68730	69040	87630	88030	1.50	8.0	18.8	
4	1.487	6	0.746	0.44	0.437	13.91	17.55	69750	70230	87990	88590	1.30	8.0	16.3	
5	1.035	5	0.622	0.31	0.304	9.45	12.81	67230	68560	91160	92960	1.40	8.0	17.5	
6	1.038	5	0.623	0.31	0.305	9.45	12.79	67230	68330	91020	92510	1.50	8.0	18.8	
7	0.665	4	0.498	0.20	0.195	6.83	8.56	75320	77250	94420	96850	1.30	8.0	16.3	
8	0.660	4	0.497	0.20	0.194	6.70	8.38	73850	76140	92400	95260	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
# 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

Maj Adnan khalid® **Test Performed By:** **Dr. /Engr.** **M. Irfan ul Hassan**

Dy Dir MTL, Const. of 1-Kanal Villas at DRGCC Club House DHA Ph-6 (M/S Linker Developers Pvt. Ltd.)

Client Reference: **408/241/E/Lab/656/265** **SOM Lab Ref:** **1212(Page-1/1)**

Dated: **31-07-2019** **Dated:** **31-07-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Ittefaq 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	2.631	8	0.992	0.79	0.773	23.04	36.82	64320	65730	102790	105050	1.10	8.0	13.8	
2	2.601	8	0.986	0.79	0.764	23.34	37.16	65170	67390	103730	107260	1.10	8.0	13.8	
3	0.674	4	0.502	0.20	0.198	6.65	9.76	73290	74030	107580	108660	1.00	8.0	12.5	
4	0.680	4	0.505	0.20	0.200	6.60	9.70	72730	72730	107010	107010	0.90	8.0	11.3	
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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 Six Samples Received and Tested

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

Sub Divisional Officer
Highway Sub Division, Miawali

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

Client Reference: **344/SDO/Mwi**
Dated: **27-07-2019**

SOM Lab Ref: **1213(Page-1/1)**
Dated: **31-07-2019**

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	2.712	8	1.007	0.79	0.797	20.18	29.41	56350	55850	82100	81380	1.80	8.0	22.5	
2	2.703	8	1.005	0.79	0.794	20.34	29.31	56780	56490	81820	81410	1.80	8.0	22.5	
3	1.481	6	0.744	0.44	0.435	11.26	16.87	56460	57110	84560	85540	1.60	8.0	20.0	
4	1.478	6	0.743	0.44	0.434	11.52	16.74	57740	58540	83900	85060	1.70	8.0	21.3	
5	0.657	4	0.496	0.20	0.193	4.96	7.41	54750	56730	81720	84690	1.70	8.0	21.3	
6	0.660	4	0.497	0.20	0.194	4.99	7.41	55080	56790	81720	84250	1.60	8.0	20.0	
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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

Ch Abdul Ghafoor **Test Performed By:** **Dr. /Engr.** **M. Irfan ul Hassan**

Resident Engineer, W W C. (Phase-II) Adjacent to Sundar Ind. Estate, District Kasur (Package-R)

Client Reference: **RE/PEPAC/WWC-R/18** **SOM Lab Ref:** **1214(Page-1/1)**

Dated: **29-07-2019** **Dated:** **31-07-2019**

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	1.524	6	0.755	0.44	0.448	15.36	20.54	77000	75630	102960	101120	1.00	8.0	12.5	
2	1.493	6	0.748	0.44	0.439	15.26	20.54	76490	76670	102960	103190	1.10	8.0	13.8	
3	0.650	4	0.493	0.20	0.191	7.16	9.28	78910	82630	102290	107110	0.90	8.0	11.3	
4	0.659	4	0.497	0.20	0.194	7.36	9.40	81160	83670	103640	106850	1.00	8.0	12.5	
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BEND TEST:

# 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

Wajid Ali Shah
GM - Works, FF Steel Lahore

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

Client Reference: **Nil**
Dated: **30-07-019**

SOM Lab Ref: **1215(Page-1/1)**
Dated: **31-07-2019**

Test: **Tension 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	1.467	6	0.741	0.44	0.431	14.17	19.18	71020	72510	96160	98170	1.10	8.0	13.8	
2	1.480	6	0.744	0.44	0.435	14.34	19.39	71890	72720	97180	98300	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

Col. Muhammad Rashid Abbasi **Test Performed By:** **Dr. /Engr.** **M Irfan Ul Hassan'**

President of the Committee, A-11, Office Phase-1, DHA Lahore Cantt

Client Reference: **740/12/3/Board/Ph-VII (AA)** **SOM Lab Ref:** **1216(Page-1/1)**

Dated: **26-07-2019** **Dated:** **31-07-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (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	1.020	5	0.618	0.31	0.300	9.86	13.78	70130	72470	98050	101320	1.10	8.0	13.8	
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Witnessed By: **Abdul Saboor,**

BEND TEST:

# 5	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

Sub Divisional Officer
Highway Sub Division, Hafizabad

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

Client Reference: **157/H**
Dated: **26-07-2019**

SOM Lab Ref: **1217 (Page-1/1)**
Dated: **31-07-2019**

Test: **Tension 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	1.502	6	0.749	0.44	0.441	14.48	19.01	72560	72390	95290	95080	1.30	8.0	16.3	
2	1.500	6	0.749	0.44	0.441	15.62	20.39	78280	78100	102190	101960	1.10	8.0	13.8	
3	0.659	4	0.497	0.20	0.194	6.85	8.89	75540	77880	98020	101050	1.10	8.0	13.8	
4	0.660	4	0.497	0.20	0.194	6.60	7.90	72730	74980	87120	89810	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed	**Note:-**
		Only Four Samples

		Received and Tested

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

Material Engineer,
754 Const Team Engrs, C/O Sig Center (FWO) Chaclala.

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

Client Reference: **607/Lab/UET/001**
Dated: **31-07-2019**

SOM Lab
Ref: **1218 (Page-1/1)**
Dated: **31-07-2019**

Test: **Tension 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	1.502	6	0.749	0.44	0.441	14.48	19.01	72560	72390	95290	95080	1.30	8.0	16.3	
2	1.500	6	0.749	0.44	0.441	15.62	20.39	78280	78100	102190	101960	1.10	8.0	13.8	
3	0.659	4	0.497	0.20	0.194	6.85	8.89	75540	77880	98020	101050	1.10	8.0	13.8	
4	0.660	4	0.497	0.20	0.194	6.60	7.90	72730	74980	87120	89810	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed	**Note:-**

		Only Twelve Samples Received and Tested

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

Sub Divisional Officer
Buildings Sub Division, C. M. Sectt; Lahore

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

Client Reference: **SDO/CMS/872**
Dated: **27-07-2019**

SOM Lab
Ref: **1219 (Page-1/1)**
Dated: **31-07-2019**

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	0.680	4	0.505	0.20	0.200	7.21	9.68	79470	79470	106790	106790	0.90	8.0	11.3	
2	0.717	4	0.518	0.20	0.211	7.56	10.06	83410	79060	110950	105160	1.00	8.0	12.5	
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BEND TEST:

# 4	**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		