

**Test Performed by:**Dr. Asad Ali Gillani

AREW  
Fabrication & Construction Pvt.Ltd  
Lahore.

**Client Reference No.:** Nil

Dated: 22-04-2024

**SOM Lab Ref:** CED/SOM/3970(Page-1/1)

Dated: 22-04-2024

**Test:** Hardness Test & Size Test

**Sample Type:** Aluminum Sq. Pipe (35x35x1.5mm)

**Size Test**

Sample No.	Sample Type	Size (mm)
1	Aluminum Sq. Pipe	35.2x35.2x1.5

**Hardness Test Details:**

**Machine used:** Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 60kgf Scale: C)

**Test Results**

Sample No.	Sample Type	Hardness avg
1	Aluminum Sq. Pipe (35x35x1.5mm)	HR –61.66 –C

**Note:** Please always confirm the results on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Hunza Steel Pvt. Ltd  
Lahore

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

Client Reference: Nil

SOM Lab

Ref: 3966 (Page-1/1)

Dated: 20-04-2024

Dated: 22-04-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Hunza 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.635	8	0.993	0.79	0.774	23.75	33.59	66310	67680	93770	95710	1.50	8.0	18.8	
2	2.656	8	0.997	0.79	0.781	25.69	34.68	71720	72540	96820	97930	1.60	8.0	20.0	
3	1.502	6	0.749	0.44	0.441	14.42	19.88	72300	72140	99640	99410	1.40	8.0	17.5	
4	1.503	6	0.750	0.44	0.442	14.90	20.10	74700	74360	100760	100300	1.40	8.0	17.5	
5	0.662	4	0.498	0.20	0.195	6.12	8.84	67450	69180	97460	99960	1.30	8.0	16.3	
6	0.659	4	0.497	0.20	0.194	6.07	8.84	66890	68950	97460	100470	1.40	8.0	17.5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Farrukh Nadeem, PM

**Test Performed By:** Dr. /Engr. Irfan ul Hassan

Innovative ® Construction Company Lahore.(Project: Shoring Works at Kingdom area,RUDA Lahore)

**Client Reference:** ICL/KA/PW/0324/04

**SOM Lab**

**Ref:** 3967(Page-1/1)

**Dated:** 22-04-2024

**Dated:** 22-04-2024

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.653	8	0.997	0.79	0.780	25.28	32.16	70580	71480	89790	90940	1.50	8.0	18.8	
2	2.623	8	0.991	0.79	0.771	30.58	37.84	85380	87480	105640	108240	1.50	8.0	18.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Farrukh Nadeem, PM

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

Innovative ® Construction Company Lahore.(Project: Shoring Works at Kingdom area,RUDA Lahore)

**Client Reference:** ICL/KA/PW/0324/04

**SOM Lab**

**Ref:** 3968(Page-1/1)

**Dated:** 22-04-2024

**Dated:** 22-04-2024

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.554	6	0.763	0.44	0.457	16.67	20.80	83540	80430	104230	100360	1.20	8.0	15.0	
2	1.542	6	0.759	0.44	0.453	15.29	19.59	76640	74450	98210	95390	1.50	8.0	18.8	
3	1.026	5	0.620	0.31	0.302	10.52	13.32	74840	76830	94790	97300	1.30	8.0	16.3	
4	1.031	5	0.621	0.31	0.303	10.21	13.15	72670	74350	93550	95720	1.40	8.0	17.5	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 5	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](http://www.uet-civil.edu.pk)

Engr. Shehzad Hafeez,PC

**Test Performed By:** Dr. /Engr. Irfan UI Hassan

M/S Al Khurram Associates (Pvt) Ltd Lhr.(500kV Sheikhupura Grid Station Construction Wokrs)

**Client Reference:** ALKHASS/PVT/WB-07E/1904

**SOM Lab**

**Ref:** 3969 (Page-1/1)

**Dated:** 19-04-2024

**Dated:** 22-04-2024

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.712	8	1.007	0.79	0.797	30.17	38.14	84240	83500	106490	105560	1.40	8.0	17.5	Ittefaq
2	1.531	6	0.757	0.44	0.450	13.35	19.08	66940	65450	95650	93530	1.50	8.0	18.8	AF
3	1.020	5	0.618	0.31	0.300	10.60	13.48	75420	77940	95880	99070	1.20	8.0	15.0	AF
4	1.023	5	0.619	0.31	0.301	10.70	13.48	76150	78430	95880	98740	1.10	8.0	13.8	AF
5	0.669	4	0.501	0.20	0.197	6.24	8.36	68800	69840	92180	93580	1.20	8.0	15.0	AF
6	0.642	4	0.491	0.20	0.189	6.44	8.36	71040	75180	92180	97540	1.00	8.0	12.5	AF
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**Witnessed By:** Sohaib Ali (NESPAK, Sub Engineer)

**BEND TEST:**

Sr # (1)	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Twelve Samples Received and Tested
Sr # (2)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr # (3-4)	Sample bend through 180 degrees Satisfactorily without any crack	
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](http://www.uet-civil.edu.pk)

Muhammad Usman,PM

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

M.Ahmad Associates.(Const Of ABL Branch 5147 at P-463 Shadman Colony-1 Lahore)

**SOM Lab**

**Ref:**

3971(Page-1/1)

**Client Reference:** Nil

**Dated:**

22-04-2024

**Dated:** 19-04-2024

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

**Gauge Length:** 8 inch

**Sample Type:**

Deformed Bar (Sheikhoo 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.598	8	0.986	0.79	0.763	24.82	32.93	69300	71750	91920	95170	1.50	8.0	18.8	
2	2.578	8	0.982	0.79	0.758	24.52	32.82	68440	71330	91640	95500	1.50	8.0	18.8	
3	0.661	4	0.497	0.20	0.194	6.90	8.77	76100	78460	96670	99660	1.30	8.0	16.3	
4	0.662	4	0.498	0.20	0.195	6.90	8.72	76100	78050	96110	98580	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six 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](http://www.uet-civil.edu.pk)

Metroplan-Asian JV

Test Performed By: Dr. /Engr. Irfan UI Hassan

Site Office JHL ET,Lahore.(Estb Of Emergency & Trauma Center at Jinnah Hospital Lahore)

Client Reference: Metroplan-Asian JV ET-JHL-RE-081-2024

SOM Lab

Ref: 3972(Page-1/1)

Dated: 22-04-2024

Dated: 22-04-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.497	6	0.748	0.44	0.440	14.78	18.98	74090	74090	95140	95140	1.50	8.0	18.8	
2	1.497	6	0.748	0.44	0.440	14.85	19.03	74450	74450	95400	95400	1.30	8.0	16.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Sub Divisional officer,

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

BSD Khushab.(Residences for Officers/Official of the Office of Dy Dir Small Scale Mining Khushab)

**Client Reference:** 841/K

**SOM Lab**

**Ref:** 3973 (Page-1/1)

**Dated:** 05-12-2023

**Dated:** 22-04-2024

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.506	6	0.751	0.44	0.443	13.73	19.49	68830	68360	97690	97030	1.30	8.0	16.3	
2	0.672	4	0.501	0.20	0.197	6.54	9.14	72170	73270	100830	102370	1.00	8.0	12.5	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)



Engr. Muhammad Tariq Assai  
 GM Jafris and Steel (pvt) Ltd.(Const Of Al-Munawar Residential)

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

**Client Reference:** Js80/513

**SOM Lab**

**Ref:** 3975(Page-1/1)

**Dated:** 22-04-2024

**Dated:** 22-04-2024

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.642	8	0.994	0.79	0.776	26.35	35.42	73570	74890	98890	100680	1.70	8.0	21.3	
2	2.656	8	0.997	0.79	0.781	25.81	35.29	72060	72890	98520	99660	1.60	8.0	20.0	
3	1.497	6	0.748	0.44	0.440	14.34	19.03	71890	71890	95400	95400	1.40	8.0	17.5	
4	1.490	6	0.747	0.44	0.438	14.22	19.01	71280	71610	95290	95730	1.50	8.0	18.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Syed Yasir Ali Sherazi,AR

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

NETRACON Tech.(220 kV D/C T/B OHTL From Sheikhpura G/S to Bund Road G/S)

**Client Reference:** NTT-HO/ADB301C-R/SI-020

**SOM Lab**

**Ref:** 3976 (Page-1/1)

**Dated:** 22-04-2024

**Dated:** 22-04-2024

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Aziz 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	3.390	9	1.126	1.00	0.996	28.75	44.90	63400	63660	99030	99430	1.50	8.0	18.8	
2	3.422	9	1.132	1.00	1.006	28.22	44.41	62230	61860	97950	97370	1.40	8.0	17.5	
3	2.663	8	0.998	0.79	0.783	22.29	36.19	62240	62800	101030	101930	1.50	8.0	18.8	
4	2.682	8	1.002	0.79	0.788	22.18	36.00	61930	62080	100510	100770	1.20	8.0	15.0	
5	2.086	7	0.883	0.60	0.613	18.37	29.61	67520	66090	108850	106540	1.20	8.0	15.0	
6	2.059	7	0.878	0.60	0.605	18.37	29.41	67520	66960	108100	107210	1.40	8.0	17.5	
7	1.491	6	0.747	0.44	0.438	13.37	20.95	67040	67350	105000	105480	1.40	8.0	17.5	
8	1.490	6	0.747	0.44	0.438	13.68	21.33	68570	68880	106890	107380	1.40	8.0	17.5	
9	0.668	4	0.500	0.20	0.196	5.86	8.53	64640	65960	94090	96010	1.30	8.0	16.3	
10	0.672	4	0.501	0.20	0.197	5.48	8.18	60480	61400	90150	91530	1.30	8.0	16.3	

**Witnessed By:** Sohaib Ali (NESPAK)

**BEND TEST:**

# 9	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Fifteen Samples Received and Tested
# 8	Sample bend through 180 degrees Satisfactorily without any crack	
# 7	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](http://www.uet-civil.edu.pk)

Sub Divisional officer,  
 BSD Hafizabad.(Estb of University of Hafizabad, Const Of Academic Block)

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

**Client Reference:** 565/HZ

**SOM Lab**

**Ref:** 3977 (Page-1/1)

**Dated:** 18-03-2024

**Dated:** 22-04-2024

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.617	8	0.990	0.79	0.769	24.87	34.51	69440	71340	96330	98960	1.40	8.0	17.5	
2	2.633	8	0.993	0.79	0.774	24.87	34.10	69440	70880	95190	97160	1.60	8.0	20.0	
3	1.480	6	0.744	0.44	0.435	14.73	19.54	73830	74680	97950	99080	1.30	8.0	16.3	
4	1.483	6	0.745	0.44	0.436	14.63	19.42	73320	74000	97340	98230	1.40	8.0	17.5	
5	0.667	4	0.500	0.20	0.196	6.52	8.74	71940	73410	96340	98300	1.00	8.0	12.5	
6	0.658	4	0.496	0.20	0.193	6.70	8.77	73850	76530	96670	100180	1.50	8.0	18.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Fasih Islam Khan

Test Performed By: Dr. /Engr. Wasim Abbas

GM (Construction) Potensial Engg (Pvt) Ltd.(500/132KV Substation Allama Iqbal Industrial City/M-3)

Client Reference: PE/NOR-4387/2022/188-R

SOM Lab

Ref: 3978(Page-1/1)

Dated: 22-04-2024

Dated: 22-04-2024

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.664	4	0.498	0.20	0.195	6.75	8.58	74420	76320	94650	97080	1.10	8.0	13.8	
2	0.658	4	0.496	0.20	0.193	7.00	8.63	77230	80030	95210	98660	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Witnessed By: Sohaib Ali (NESPAK)

**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Yasir Ahmad  
GM-Works FF Steel Lahore.

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

**Client Reference:** Nil

**SOM Lab**

**Ref:** 3979 (Page-1/1)

**Dated:** 20-04-2024

**Dated:** 22-04-2024

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (FF Steel)

ASTM-A-615

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.483	6	0.745	0.44	0.436	14.55	19.67	72910	73580	98610	99520	1.30	8.0	16.3	1
2	1.486	6	0.746	0.44	0.437	14.58	19.80	73070	73570	99230	99910	1.40	8.0	17.5	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)