Test Performed by: Dr.S.Asad Ali Gillani

LEE KYUNG HO
Construction Supervisor/Deputy PM
SUNJIN Engineering & amp; Architecture Co., Ltd.
Technology Park Development Project

Client Reference No.: PK-IT-SUN-C-28-OCT-001 Dated: 28-10-2024

SOM Lab Ref: CED/SOM/111-157(Page 1/5) Dated: 29-10-2024

Test Type: Load Test

Sample Type: Parapet Ring (SS304)

Load Test Results

Sample No.	Sample Type	Ultimate Load	Remarks
1	Parapet Ring (SS304)	71.0 kN	Parapet Ring breaks from the weld part

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

Test Performed by: Dr.S.Asad Ali Gillani

LEE KYUNG HO
Construction Supervisor/Deputy PM
SUNJIN Engineering & amp; Architecture Co., Ltd.
Technology Park Development Project

Client Reference No.: PK-IT-SUN-C-23-OCT-001 Dated: 23-10-2024

SOM Lab Ref: CED/SOM/111-157(Page 2a/5) Dated: 29-10-2024

Test Type: Tensile Test

Sample Type: Bolt M22

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation	Remarks
1	Bolt M22	14.0	172.0	1117.9	30.0	Sample breaks at this Load

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machines
(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: C)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
1	Bolt M22	HR – 33.16– C

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

Test Performed by: Dr.S.Asad Ali Gillani

LEE KYUNG HO
Construction Supervisor/Deputy PM
SUNJIN Engineering & amp; Architecture Co., Ltd.
Technology Park Development Project

Client Reference No.: PK-IT-SUN-C-23-OCT-001 Dated: 23-10-2024

SOM Lab Ref: CED/SOM/111-157(Page 2b/5) Dated: 29-10-2024

Test Type: Tensile Test

Sample Type: Anchor Bolt M20,Stud Bolt M22,& Stud Bolt M16

Tensile Test Results

S No.	Sample Type	Diameter of Bolt (mm)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	% Elongation
1	Anchor Bolt M20	20.0	126.7	198.7	403.5	632.8	21.25
2	Stud Bolt M22	22.0	185.2	290.7	487.4	765.1	22.5
3	Stud Bolt M16	16.0	150.0	206.0	746.4	1025.1	22.5

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machines
(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
1	Anchor Bolt M20	HR – 87.50– B
2	Stud Bolt M22	HR – 86.33– B
3	Stud Bolt M16	HR – 87.83– B

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

Test Performed by: Dr.S.Asad Ali Gillani

LEE KYUNG HO
Construction Supervisor/Deputy PM
SUNJIN Engineering & amp; Architecture Co., Ltd.
Technology Park Development Project

Client Reference No.: PK-IT-SUN-C-09-OCT-002 Dated: 09-10-2024

SOM Lab Ref: CED/SOM/111-157(Page 3/5) Dated: 29-10-2024

Test Type: Tensile Test

Sample Type: Bolt M20

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation	Remarks
1	Bolt M20	14.0	179.2	1164.7	30.0	Sample breaks at this Load
2	Bolt M20	14.0	179.0	1163.4	30.0	Sample breaks at this Load

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machines
(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: C)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
1	Bolt M22	HR – 25.0– C

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

Test Performed by: Dr.S.Asad Ali Gillani

LEE KYUNG HO
Construction Supervisor/Deputy PM
SUNJIN Engineering & amp; Architecture Co., Ltd.
Technology Park Development Project

Client Reference No.: PK-IT-SUN-C-21-OCT-003 Dated: 21-10-2024

SOM Lab Ref: CED/SOM/111-157(Page 4/5) Dated: 29-10-2024

Test Type: Tensile Test

Sample Type: Hilti Bolts (HLC 6.5 x 60/40)

Tensile Test Results

Sample No.	Sample Type	Size (mm)	Ultimate Load (kN)
1	Hilti Bolts	6.5 x 60/40	6.70
2	Hilti Bolts	6.5 x 60/40	6.50

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

Test Performed by: Dr.S.Asad Ali Gillani

LEE KYUNG HO
Construction Supervisor/Deputy PM
SUNJIN Engineering & amp; Architecture Co., Ltd.
Technology Park Development Project

Client Reference No.: PK-IT-SUN-C-23-OCT-002 Dated: 23-10-2024

SOM Lab Ref: CED/SOM/111-157(Page 5/5) Dated: 29-10-2024

Test Type: Tensile Test

Sample Type: Rod Bar (SS400)

Tensile Test Results

S No.	Sample Type	Diameter of Bolt (mm)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	% Elongation
1	Rod Bar	20.0	130.0	199.0	414.0	633.8	22.5

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machines
(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: C)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
1	Rod Bar (SS400)	HR – 25.16– C

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

Test Performed by: Dr.S.Asad Ali Gillani

LEE KYUNG HO
Construction Supervisor/Deputy PM
SUNJIN Engineering & amp; Architecture Co., Ltd.
Technology Park Development Project

Client Reference No.: PK-IT-SUN-C-17-OCT-001 Dated: 17-10-2024

SOM Lab Ref: CED/SOM/112(Page 1/2) Dated: 29-10-2024

Test Type: Hardness Test

Sample Type: Steel Plates

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machines
(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	**Sample Type**	**Hardness** avg
1	Steel Plate 8mm	HR – 90.16– B
2	Steel Plate 10mm	HR – 87.83– B
3	Steel Plate 12mm	HR – 85.83– B
4	Steel Plate 16mm	HR – 87.50– B
5	Steel Plate 20mm	HR – 90.0– B
6	Steel Plate 35mm	HR – 88.46 B

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

Test Performed by: Dr.S.Asad Ali Gillani

LEE KYUNG HO
Construction Supervisor/Deputy PM
SUNJIN Engineering & amp; Architecture Co., Ltd.
Technology Park Development Project

Client Reference No.: PK-IT-SUN-C-23-OCT-003 Dated: 23-10-2024

SOM Lab Ref: CED/SOM/112(Page 2/2) Dated: 29-10-2024

Test Type: Hardness Test

Sample Type: Steel Plate (25mm)

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machines
(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	**Sample Type**	**Hardness** avg
1	Steel Plate 25mm	HR – 89.0- B

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

Test Performed by: Dr. S. Asad Ali Gillani

Hafiz Saeed Ur Rehman
RE NESPAK
Lahore
(Remodeling and Upgradation of ADA Nullah & Walton Road, Pkg-I)

Client Reference No.: 4702/13/HSR/09/80 Dated: 25-10-2024
SOM Lab Ref: CED/SOM/113(Page-1/1) Dated: 29-10-2024
Test: Impact Test
Sample Type: MS Plate (25mm)

IMPACT Test Results

Machine Used	Charpy's Impact Testing Machine
Weight of Hammer	50.5 Lbs = 22.91 kg
Height of fall	4.924ft = 1.309 m
Radius at center of fork	700 mm =
Angle of fall without specimen	149°
Sample	Standard Charpy (Bending Type)

Sr. No	Sample Identification	Angle of fall after Rupture	Energy (N-mm)
1	MS Plate (25mm)	130°	**33726.85**

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

Mehmood Iqbal Cheema,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak-Turk Pak JV,MCH Bwn.(Estb Of General Hospital at Distt Bahawalnager)

Client Reference: 4460/13/MIAC/04/421 **SOM Lab Ref:** 106 (Page-1/1)

Dated: 28-10-2024 **Dated:** 29-10-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar (SGI 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	2.666	8	0.998	0.79	0.783	25.28	36.14	70580	71210	100880	101790	1.10	8.0	13.8	
2	2.663	8	0.998	0.79	0.783	24.67	33.10	68870	69490	92400	93230	1.30	8.0	16.3	
3	1.504	6	0.750	0.44	0.442	14.24	19.01	71380	71060	95290	94860	1.10	8.0	13.8	
4	1.502	6	0.749	0.44	0.441	14.09	18.73	70620	70460	93860	93650	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

Note:-

Only Six Samples Received and Tested

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

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

PM Jilani Poly Construction.(Const Of Jilani Poly-2 Extension Sheikhpura)

Client Reference: JP-2/UET/2024/S-0011 **SOM Lab Ref:** 107 (Page-1/1)

Dated: 29-10-2024 **Dated:** 29-10-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Mehboob 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	1.443	6	0.735	0.44	0.424	13.43	17.15	67290	69830	85940	89190	1.50	8.0	18.8	
2	1.437	6	0.733	0.44	0.422	12.23	16.38	61320	63930	82110	85610	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

M. Yasir Kiani, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

JCP Wahga NESPAK. (Expension Of Joint Check Post Wahga, Lahore)

Client Reference: 4749/031/YK/01/87 **SOM Lab Ref:** 108 (Page-1/1)

Dated: 28-10-2024 **Dated:** 29-10-2024

Test: Tension 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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.476	6	0.743	0.44	0.434	17.13	21.58	85840	87030	108170	109660	1.20	8.0	15.0	
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Witnessed By: Sohail Sulehri (NESPAK)

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only One Sample Received and Tested

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

M. Yasir Kiani, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

JCP Wahga NESPAK. (Expension Of Joint Check Post Wahga, Lahore)

Client Reference: 4749/031/YK/01/85 **SOM Lab Ref:** 109 (Page-1/1)

Dated: 28-10-2024 **Dated:** 29-10-2024

Test: Tension 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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.667	8	0.999	0.79	0.784	23.29	36.44	65030	65530	101740	102520	1.20	8.0	15.0	
2	2.668	8	0.999	0.79	0.784	23.29	36.49	65030	65530	101880	102660	1.30	8.0	16.3	
3	1.510	6	0.752	0.44	0.444	13.93	20.51	69850	69220	102800	101880	1.30	8.0	16.3	
4	1.502	6	0.749	0.44	0.441	13.83	20.46	69340	69180	102550	102320	1.40	8.0	17.5	
5	0.670	4	0.501	0.20	0.197	5.76	8.69	63510	64480	95770	97230	1.30	8.0	16.3	
6	0.667	4	0.500	0.20	0.196	5.58	8.53	61490	62750	94090	96010	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

Program Director **Test Performed By:** **Dr. /Engr.** Wasim Abbas

PFPP Primary &Secondary HealthCare Deptt.(Two-Story Pre-Fabricated Office Building at PFPP Lhr)

Client Reference: 1035/PFPP **SOM Lab Ref:** 110 (Page-1/1)

Dated: 15-10-2024 **Dated:** 29-10-2024

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	1.037	5	0.623	0.31	0.305	10.37	13.12	73760	74970	93340	94870	1.40	8.0	17.5	
2	1.040	5	0.624	0.31	0.306	10.42	13.12	74120	75090	93340	94560	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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Wasim Abbas

BSD No.23 Lhr.(Revamping of 552 BHU`S of North and Central Punjab,Phase-I)

Client Reference: 125/235.D **SOM Lab Ref:** 114 (Page-1/1)

Dated: 05-10-2024 **Dated:** 29-10-2024

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.671	4	0.501	0.20	0.197	5.63	8.33	62050	63000	91840	93240	1.40	8.0	17.5	
2	0.671	4	0.501	0.20	0.197	5.58	8.23	61490	62430	90720	92100	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

Ali Zahid Latif, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak-Turkpak JV Lhr.(Reconstruction of Old P&D Building,Lahore)

Client Reference: 4674/P&D/13/09/AZL/59 **SOM Lab Ref:** 115 (Page-1/3)

Dated: 11-10-2024 **Dated:** 29-10-2024

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.668	4	0.500	0.20	0.196	5.93	8.97	65420	66760	98920	100940	1.20	8.0	15.0	
2	0.669	4	0.501	0.20	0.197	5.93	9.03	65420	66420	99600	101110	1.10	8.0	13.8	
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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

Ali Zahid Latif, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak-Turkpak JV Lhr.(Reconstruction of Old P&D Building,Lahore)

Client Reference: 4674/P&D/13/09/AZL/63 **SOM Lab Ref:** 115 (Page-2/3)

Dated: 17-10-2024 **Dated:** 29-10-2024

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.665	8	0.998	0.79	0.783	22.83	36.70	63750	64320	102450	103370	1.50	8.0	18.8	
2	2.664	8	0.998	0.79	0.783	22.73	36.75	63460	64030	102590	103510	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Ali Zahid Latif, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak-Turkpak JV Lhr.(Reconstruction of Old P&D Building,Lahore)

Client Reference: 4674/P&D/13/09/AZL/62 **SOM Lab Ref:** 115 (Page-3/3)

Dated: 16-10-2024 **Dated:** 29-10-2024

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.493	6	0.748	0.44	0.439	12.84	20.36	64380	64530	102040	102270	1.20	8.0	15.0	
2	1.495	6	0.748	0.44	0.439	13.07	20.51	65510	65660	102800	103040	1.30	8.0	16.3	
3	0.666	4	0.500	0.20	0.196	5.81	8.87	64080	65380	97800	99790	1.40	8.0	17.5	
4	0.673	4	0.502	0.20	0.198	5.81	8.89	64080	64720	98020	99010	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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