

Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

Ref: <u>CED/TFL/05/33252</u>

Dated: 16-05-19

## To Addl Dir Dev DHA Phase-XI (Rahbar Development of Re-appropriated Area in Sector-II (Extension), DHA Phase-XI (Rahbar)

# Subject: TESTING OF R.C.C. PIPE [ASTM-C76]

Reference to your letter No. Dev/RAA/Sec-II(Extn)/2/19/1641, dated

16.05.2019 on the subject cited above. Two R.C.C. Pipes as received by us have been

tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	<b>Proof load</b>	Ultimate Load	Proof Stress	Ultimate Stress
	(mm)	(m)	(m)	(mm)	(mm)	(mm)	(kg)	(kg)	N/m/mm	N/m/mm
1	228.6 (9")	2.383	2.235	314.00	220.06	46.97	9700	15900	193.47	317.14
2	228.6 (9")	2.383	2.238	318.00	223.60	47.20	9600	15200	188.20	297.98

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

1- You can See your reports On Internet in the following web site

http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports

The above results pertain to sample /samples supplied to this laboratory.
 Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

Ref: <u>CED/TFL/05/33274</u>

Dated: 21-05-19

To Assistant Manager (Engg) Punjab Daanish Schools and Centers of Excellence Authority Upgradation of Daanish Schools (Boys & Girls) Chishtian, District BahawalNagar

# Subject: TESTING OF R.C.C. PIPE [ASTM-C76]

Reference to your letter No. AM(E)/04/19/125, dated 11.05.2019 on the

subject cited above. Two R.C.C. Pipes as received by us have been tested. The results are

tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proofload	Ultimate Load	Proof Stress	Ultimate Stress
•	(mm)	(m)	(m)	(mm)	(mm)	(mm)	(kg)	(kg)	N/m/mm	N/m/mm
1	228.6 (9")	2.376	2.212	275.00	224.44	25.28	6500	10100	128.44	199.57
2	304.8 (12")	2.364	2.235	408.00	307.46	50.27	15100	20000	215.57	285.52

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html2RID=

http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports

2. The above results pertain to sample /samples supplied to this laboratory.

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# STRUCTURAL ENGINEERING DIVISION

## Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, Resident Engineer AL-Imam Enterprises Pvt Ltd Construction of Penta Square, Phase-V, D.H.A, Lahore (Mughal Steel)

Reference # CED/TFL 33277 (Dr. Qasim Khan)	Dated: 23-05-2019
Reference of the request letter # Al-mam/746/PS-1/DHA/LHE/866	Dated: 20-05-2019

# **Tension Test Report** (Page -1/1)

Date of Test24Gauge length8 iDescriptionDescription

24-05-20198 inchesDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)		·ea 1 <sup>2</sup> )	Yield load	Breaking Load	Yield (p	Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	Re
1	0.402	10	9.85	0.11	0.118	4000	5000	80200	74660	100200	93400	1.20	15.0	
2	0.404	10	9.88	0.11	0.119	3700	4900	74200	68620	98200	90900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	e and one	sample	for bend	test			
	Bend Test													
10r	nm Dia I	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	ctory							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports
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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



## Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, Manager Coordination Izhar Construction (Pvt) Ltd Hyundai Nishat Motor Pvt. Limited, Faisalabad

Reference # CED/TFL 33278 (Dr. Qasim Khan)	Dated:
Reference of the request letter # ICPL/CONST-HNMPL/19/051	Dated:

# **Tension Test Report** (Page -1/1)

Date of Test Gauge length Description 24-05-2019 8 inches Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.			ze		Area (in <sup>2</sup> )				Breaking Load		Stress si)	Ultimat (p	e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re		
1	0.415	10	10.01	0.11	0.122	4100	5300	82200	74050	106200	95800	1.10	13.8			
2	0.414	10	9.99	0.11	0.122	4200	5400	84200	76160	108200	98000	1.10	13.8			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-	-	-	-			
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend	test					
							Bend T	`est								
101	10mm Dia Bar Bend Test Through 180° is Satisfactory															

I/C Testing Laboratoires UET Lahore, Pakistan.

23-05-2019 23-05-2019

Note:

1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports

2. The above results pertain to sample /samples supplied to this laboratory.



## Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer

AZ Engineering Associates

Rehabilitation/ Reconstruction of Road from Sialkot Bypass Mafiwala to Trigri via Arrop, G-II RD 13+12 to 64+50, L=5138 Rft in District Gujranwala

Reference # CED/TFL **33279** (Dr. Qasim Khan) Reference of the request letter # AZEA/REKMK/776 Dated: 23-05-2019 Dated: 21-05-2019

Tension Test Rep	<b>Dort</b> (Page -1/1)
Date of Test	24-05-2019
Gauge length	8 inches
Description	Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No. it) Weight	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S			Actual (inch)	Nominal	r) Actual		(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.378	3	0.376	0.11	0.111	3200	4400	64200	63530	88200	87400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	I	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	or tensile	and one	sample f	or bend t	est	1		
#3	Bar Ben	d Test 7	Fhrough	n 180° is	s Satisfa	ctory	Bend T	lest						

#### I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports
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## Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, Sub Divisional Officer Buildings Sub Division Kamalia (Establishment of New Govt. Girls Primary School Chak No. 682/23 GB in District T.T. Singh

Reference # CED/TFL **33280** (Dr. Qasim Khan) Reference of the request letter # 498/ Dated: 23-05-2019 Dated: 20-05-2019

<b>Tension Test Rej</b>	<b>port</b> (Page -1/1)
Date of Test	24-05-2019
Gauge length	8 inches
Description	Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight			Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)			e Stress si)	Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.360	3/8	0.367	0.11	0.106	2200	3000	44100	45860	60200	62600	1.80	22.5	
2	0.386	3/8	0.380	0.11	0.113	2800	3700	56200	54460	74200	72000	1.70	21.3	
-	-	I	-	I	-	-	-	-	-	-	I	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1		
3/8	Bend Test 3/8" Dia Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports
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# STRUCTURAL ENGINEERING DIVISION

## Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, Sub Divisional Officer Buildings Sub Division Kamalia (Re-Construction of 1-No Class Room size (28'x18') with Verandah at GES Ravi Khokhar Tehsil Kamalia T.T. Singh) Reference # CED/TFL **33281** (Dr. Qasim Khan) Reference of the request letter # 496/ Dated: 20-05-2019

# **Tension Test Report** (Page -1/1)

Date of Test Gauge length Description

24-05-2019 8 inches Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea n <sup>2</sup> )	Yield load	Breaking Load		Stress si)		Ultimate Stress (psi)		% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	Ro
1	0.356	3/8	0.365	0.11	0.105	3100	3700	62200	65280	74200	78000	1.50	18.8	
2	0.364	3/8	0.369	0.11	0.107	3100	3700	62200	63830	74200	76200	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	I	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1	[	
<u> </u>							Bend T	est						
3/8	" Dia Ba	r Bend	Test Th	nrough	180° is S	Satisfacto	ry							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports
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## Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, Resident Engineer PEPAC Establishment of Workers Welfare Complex (Phase-I) Adjacent to Sundar Industrial Estate, District Kasur (Package-R)

Reference # CED/TFL **33282** (Dr. Qasim Khan) Reference of the request letter # RE/PEPAC/WWC/84-00

#### Dated: 23-05-2019 Dated: 21-05-2019

# Tension Test Report (Page -1/1)Date of Test24-05-2019Gauge length8 inchesDescriptionDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		·ea 1 <sup>2</sup> )	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	g) (kg)		Actual	Nominal	Actual	(inch)	% E	Re
1	0.366	3/8	0.370	0.11	0.108	3200	5000	64200	65510	100200	102400	1.20	15.0	
2	0.364	3/8	0.369	0.11	0.107	3200	5100	64200	65910	102200	105100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend t	test			
							Bend T	est						
3/8	" Dia Ba	r Bend	Test Th	rough	180° is S	Satisfacto	ry							

I/C Testing Laboratoires UET Lahore, Pakistan.

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## Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, Sub Divisional Officer Buildings Sub-Division, Arifwala (Establishment of Cattle Market District Pakpattan)

Reference # CED/TFL **33284** (Dr. Qasim Khan) Reference of the request letter # 1126/SDO-PPN Dated: 23-05-2019 Dated: 02-05-2019

# **Tension Test Report** (Page -1/1)

Date of Test Gauge length Description 24-05-20198 inchesDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ize ch)		·ea 1 <sup>2</sup> )	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.376	3/8	0.375	0.11	0.110	4000	5500	80200	79790	110200	109800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	ample fo	or tensile	and one	sample f	or bend t	est	1		
							Bend T	est						
3/8	" Dia Ba	ar Bend	Test Th	nrough	180° is S	Satisfacto	ry							

### I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports
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## Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, M/S Defence Housing Authority. Lahore Cantt (Infra Development Works Sector-E, DHA Phase-IX)(M/s Inland)

Reference # CED/TFL 33285 (Dr. Qasim Khan)	Dated: 23-05-2019
Reference of the request letter # 408/241/E/Lab/589/46	Dated: 23-05-2019

# **Tension Test Report** (Page -1/1)

Date of Test Gauge length Description 24-05-2019 8 inches Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diam siz			rea n <sup>2</sup> )	Yield load	Breaking Load		Stress si)		Ultimate Stress (psi)		% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.368	3	0.371	0.11	0.108	3200	5300	64200	65270	106200	108100	1.00	12.5	eel
2	0.366	3	0.370	0.11	0.108	3400	5400	68200	69640	108200	110600	0.90	11.3	City Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cit
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	'est						
#3	Bar Ben	d Test 7	Fhrough	n 180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports

2. The above results pertain to sample /samples supplied to this laboratory.



## Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To, M/S Defence Housing Authority. Lahore Cantt (Infra Development Works Sector-B (extn), DHA Phase-V)(M/s Inland)

Reference # CED/TFL 33286 (Dr. Qasim Khan)	Dated: 23-05-2019
Reference of the request letter # 408/241/E/Lab/590/27	Dated: 23-05-2019

# **Tension Test Report** (Page -1/1)

Date of Test Gauge length Description 24-05-20198 inchesDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diam siz			rea n <sup>2</sup> )	Yield load	Breaking Load	Yield Stress (psi)		s Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.361	3	0.367	0.11	0.106	3200	5100	64200	66510	102200	106000	0.90	11.3	eel
2	0.367	3	0.371	0.11	0.108	3200	5300	64200	65370	106200	108300	1.10	13.8	City Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cị
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							Bend T	est						
#3	Bar Ben	d Test ]	Fhrough	n 180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports

2. The above results pertain to sample /samples supplied to this laboratory.



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

Ref: <u>CED/TFL/04/33289</u>

Dated: 24-05-19

# To, DCRE/RE-1 Zeeruk International (Pvt) Ltd Lahore – Sialkot Motorway Project

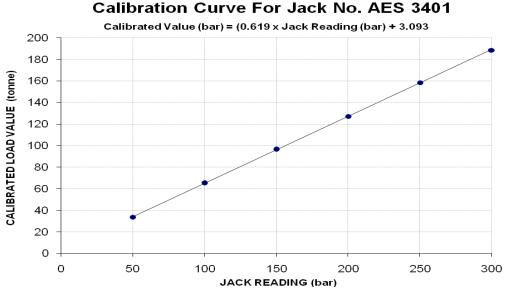
# Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/05/33289) (Page -1/2)

Reference to your Letter No. LSMP/RE-1/2019/813, Dated: 22/05/2019 on the subject cited above. One Hydraulic Jack (Jack No 3401, Gauge No. AES-3401) as received by us has been calibrated. The results are tabulated as under:

Total Range :	Zero -	700 (bar)
Calibrated Range :	Zero -	300 (bar)

Hydraulic Jack Rea	50	100	150	200	250	300	
Calibrated Load	(Kg)	33600	65200	96400	127200	158400	188400
Cambrated Load	Tonne	33.60	65.20	96.40	127.20	158.40	188.40
Calibrated Pressure	54.73	106.20	157.02	207.19	258.01	306.87	

1 Tonne = 1000 Kg, The Ram Area of Jack =  $602.09 \text{ cm}^2$ 



I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

Ref: <u>CED/TFL/04/33289</u>

Dated: 24-05-19

# To, DCRE/RE-1 Zeeruk International (Pvt) Ltd Lahore – Sialkot Motorway Project

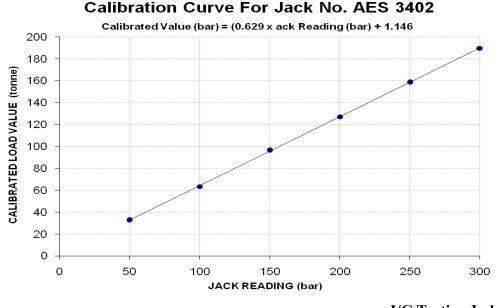
# Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/05/33289) (Page -2/2)

Reference to your Letter No. LSMP/RE-1/2019/813, Dated: 22/05/2019 on the subject cited above. One Hydraulic Jack (Jack No 3402, Gauge No. AES-3402) as received by us has been calibrated. The results are tabulated as under:

Total Range :	Zero -	700 (bar)
Calibrated Range :	Zero -	300 (bar)

Hydraulic Jack Rea	50	100	150	200	250	300	
Calibrated Load	(Kg)	32600	63400	96400	127000	158600	189600
Calibrated Load	Tonne	32.60	63.40	96.40	127.00	158.60	189.60
Calibrated Pressure	53.10	103.27	157.02	206.86	258.33	308.83	

1 Tonne = 1000 Kg, The Ram Area of Jack =  $602.09 \text{ cm}^2$ 



I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

> I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\_reports

2. The above results pertain to sample /samples supplied to this laboratory.