



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

Ref: CED/TFL/03/33102

Dated: 18-04-19

To

Resident Engineer
EA Consulting (Pvt) Ltd
Sukkur - Multan Motorway Project
Sec-III (CSCEC)
(New Pipe Casting Industry Lahore)

Subject: TESTING OF MAN HOLE COVER D700, (AASHTO-M-306)

Reference to your letter No. CRE/EA/M.P-III/393-2019, dated 18.04.2019 on the subject cited above. One Man Hole Cover D700 as received by us has been tested. The results are tabulated as under.

Sr. No.	Sample	Proof Load	Sustained Period	Result
1	Man Hole Cover D700	178 kN	1 min.	No Cracks and permanent deflection was observed at specified applied load

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
M/S China State Construction Engineering Corporation
CSCEC Pakistan Peshawar-Karachi Motorway (Sukkur-Multan Section) Project
Section 2 (Sukkur to Mulan)

Reference # CED/TFL **33121-122** (Dr. Usman Akmal)
Reference of the request letter # CSCEC/PKM/SEC 2/2019/10

Dated: 22-04-2019
Dated: 20-04-2019

Tension Test Report (Page – 1/2)

Date of Test 07-05-2019
Gauge length 2 inches
Description W-Section Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Section	2.40x0.28	0.67	2500	4100	3720.24	6101.19	0.45	22.50	S # 6
2		2.70x0.28	0.76	3000	4400	3968.25	5820.11	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S China State Construction Engineering Corporation
CSCEC Pakistan Peshawar-Karachi Motorway (Sukkur-Multan Section) Project
Section 2 (Sukkur to Mulan)

Reference # CED/TFL **33121-122** (Dr. Usman Akmal)
Reference of the request letter # CSCEC/PKM/SEC 2/2019/09

Dated: 22-04-2019
Dated: 20-04-2019

Tension Test Report (Page – 2/2)

Date of Test 07-05-2019
Gauge length 2 inches
Description W-Section Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Section	2.60x0.275	0.72	2600	4000	3636.36	5594.41	0.60	30.00	S # 1
2		2.60x0.275	0.72	2700	4000	3776.22	5594.41	0.60	30.00	
3	W-Section	2.60x0.275	0.72	2800	3900	3916.08	5454.55	0.60	30.00	S # 2
4		2.60x0.275	0.72	2800	3900	3916.08	5454.55	0.55	27.50	
5	W-Section	2.46x0.275	0.68	2400	3900	3547.67	5764.97	0.55	27.50	S # 3
6		2.46x0.275	0.68	2400	3900	3547.67	5764.97	0.60	30.00	
7	W-Section	2.48x0.275	0.68	2500	4300	3665.69	6304.99	0.45	22.50	S # 4
8		2.28x0.275	0.63	2300	4300	3668.26	6858.05	0.45	22.50	
	W-Section	2.60x0.275	0.72	2600	4000	3636.36	5594.41	0.55	27.50	S # 5
		2.60x0.275	0.72	2700	4000	3776.22	5594.41	0.55	27.50	
11	W-Section	2.48x0.275	0.68	2500	3800	3665.69	5571.85	0.45	22.50	S # 7
12		2.28x0.275	0.63	2300	3900	3668.26	6220.10	0.40	20.00	
Only Twelve Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Resident Engineer – II
 Zeeruk International (Pvt) Ltd
 Lahore – Sialkot Motorway (Section II & III)
 (Toll Plaza 12 Lane RD: 90+270.696)(Star Engineering (Pvt) Ltd)

Reference # CED/TFL **33125** (Dr. Waseem Abbas)
 Reference of the request letter # LSM/RE-II/St/19/196

Dated: 23-04-2019
 Dated: 19-04-2019

Tension Test Report (Page – 1/1)

Date of Test 25-04-2019
 Gauge length 2 inches
 Description Steel Structure Steel Strip Tensile and Bend Test as per ASTM-A36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Beam Heb	250x250	25.00x15.10	377.50	12800	23100	332.63	600.29	0.60	30.00	
2		250x250	25.00x15.10	377.50	13500	22700	350.82	589.90	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
Only Two Samples for Tensile and One Sample for Bend Test											
Bend Test											
Strip Taken from Beam Heb (250x250mm) Bend Test Through 180° is Satisfactory											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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

Ref: CED/TFL/04/33131

Dated: 23-04-19

To,
Resident Engineer -II & III
Zeeruk International (Pvt) Ltd
Lahore - Sialkot Motorway

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/33131) (Page -1/2)

Reference to your Letter No. LSM/RE-II/St/19-205, Dated: 22/04/2019 on the subject cited above. One Hydraulic Jack (Jack No 3501, Gauge No. AES-3501) as received by us has been calibrated. The results are tabulated as under:

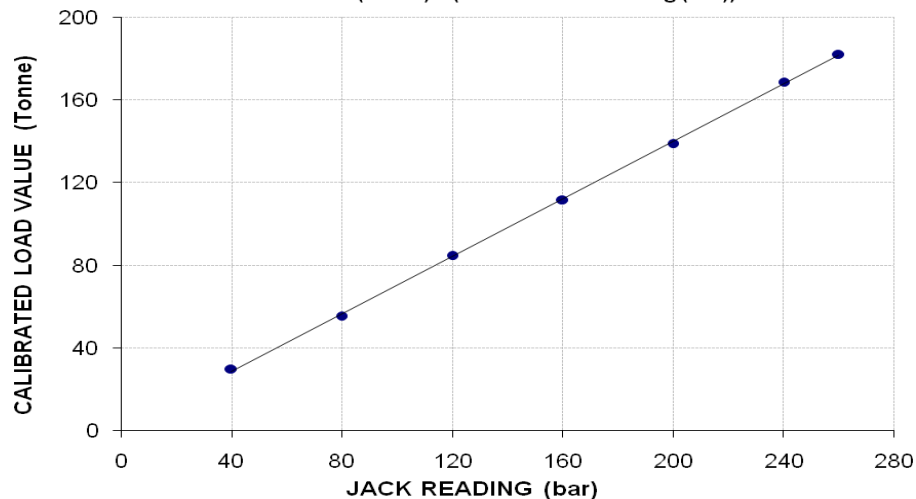
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	260	
Calibrated Load	(kg)	29900	55600	84900	111800	139000	168700	182200
	Tonne	29.90	55.60	84.90	111.80	139.00	168.70	182.20
Calibrated Pressure (bar)	43.24	80.40	122.77	161.67	201.00	243.95	263.47	

1 Tonne = 1000 kg, The Ram Area of Jack = 678.20 cm²

Calibration Curve For Jack No. AES 3501

Calibrated Value (tonne) = (0.695 × Jack Reading (bar)) + 1.040



I/C Testing Laboratoires
UET Lahore, Pakistan.

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

Ref: CED/TFL/04/33131

Dated: 23-04-19

To,
Resident Engineer -II & III
Zeeruk International (Pvt) Ltd
Lahore - Sialkot Motorway

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/33131)** (Page -2/2)

Reference to your Letter No. LSM/RE-II/St/19-205, Dated: 22/04/2019 on the subject cited above. One Hydraulic Jack (Jack No 3502, Gauge No. AES-3502) as received by us has been calibrated. The results are tabulated as under:

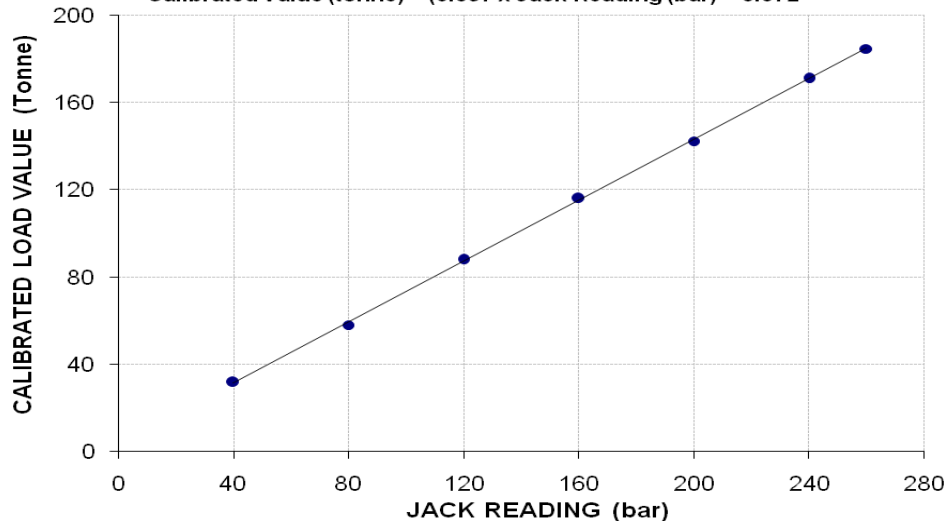
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	260	
Calibrated Load	(kg)	31800	58000	88000	116000	142400	171000	184600
	Tonne	31.80	58.00	88.00	116.00	142.40	171.00	184.60
Calibrated Pressure (bar)	45.98	83.87	127.25	167.74	205.92	247.27	266.94	

1 Tonne = 1000 kg, The Ram Area of Jack = 678.20 cm²

Calibration Curve For Jack No. AES 3502

Calibrated Value (tonne) = (0.697 x Jack Reading (bar) + 3.572



I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,
 Medical Superintendent
 Nishtar Hospital Multan
 Construction of Building for New MRI Machine in Nishtar Hospital Multan

Reference # CED/TFL **33133** (Dr. Usman Akmal)
 Reference of the request letter # 16293/NH

Dated: 24-04-2019
 Dated: 13-04-2019

Tension Test Report (Page -1/1)

Date of Test 25-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.425	3/8	0.399	0.11	0.125	4500	5600	90200	79380	112300	98800	0.90	11.3	
2	0.422	3/8	0.397	0.11	0.124	4500	5500	90200	80010	110200	97800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Executive Engineer
 Hafizabad Division, LCCW
 Faisalabad
 (Bed Protection of Rakh Branch Canal Due to Construction of Kashmir Pull Underpass at RD
 260+500 Rakh Branch Canal Faisalabad)
 Reference # CED/TFL **33134** (Dr. Usman Akmal) Dated: 24-04-2019
 Reference of the request letter # 1259/40m Dated: 13-04-2019

Tension Test Report (Page -1/1)

Date of Test 25-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.398	3	0.386	0.11	0.117	3400	5200	68200	64080	104200	98000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Assistant Resident Engineer
 Prime Engineering Consultancy
 Kallurkot Bridge Project
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan
 (Nomi Steel)
 Reference # CED/TFL **33137** (Dr. Usman Akmal) Dated: 24-04-2019
 Reference of the request letter # PE-BA-JV/KK-DIK/2019/017 Dated: 23-04-2019

Tension Test Report (Page -1/1)

Date of Test 25-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.191	32	31.81	1.27	1.232	40000	52200	69500	71570	90600	93400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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
 NESPAK
 Widening of Aik Moria Pull, Lahore
 (Kamran Steel)

Reference # CED/TFL **33144** (Dr. Usman Akmal)
 Reference of the request letter # 3772/AMP/103/MWA/04/17

Dated: 24-04-2019
 Dated: 23-04-2019

Tension Test Report (Page -1/2)

Date of Test 25-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	5.236	11	1.400	1.56	1.539	48000	67900	67900	68750	96000	97300	1.40	17.5	
2	5.163	11	1.390	1.56	1.518	45000	64600	63600	65360	91300	93900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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To,
 Resident Engineer
 NESPAK
 Widening of Aik Moria Pull, Lahore
 (Mughal Steel)

Reference # CED/TFL **33144** (Dr. Usman Akmal)
 Reference of the request letter # 3772/AMP/103/MWA/04/16

Dated: 24-04-2019
 Dated: 23-04-2019

Tension Test Report (Page -2/2)

Date of Test 25-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.211	10	1.255	1.27	1.238	42000	54200	72900	74800	94100	96600	1.50	18.8	
2	4.210	10	1.255	1.27	1.238	41400	54000	71900	73740	93800	96200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Sub Divisional Officer
 Buildings Sub Division C.M Sectt;
 Lahore
 (Provision of Security Arrangements in Chief Minister's Office at 7-Club Road and 90-SQA,
 Lahore)
 Reference # CED/TFL **33145** (Dr. Usman Akmal) Dated: 24-04-2019
 Reference of the request letter # SDO/CMS/797 Dated: 19-04-2019

Tension Test Report (Page -1/1)

Date of Test 25-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.383	3/8	0.379	0.11	0.113	2700	4100	54100	52880	82200	80300	1.40	17.5	
2	0.381	3/8	0.378	0.11	0.112	2700	4100	54100	53160	82200	80800	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

Reference # CED/TFL **33146** (Dr. Usman Akmal)
 Reference of the request letter # RE/PEPAC/WWC/KSR/65

Dated: 24-04-2019
 Dated: 23-04-2019

Tension Test Report (Page -1/1)

Date of Test 25-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.382	3/8	0.378	0.11	0.112	3200	4500	64200	62840	90200	88400	1.50	18.8	
2	0.378	3/8	0.376	0.11	0.111	3200	4450	64200	63400	89200	88200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
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.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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