

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

Ref: CED/TFL/07/3678 Dated: 31-07-2023

Dated: 01-08-2023

To

M/S China Gezhouba Group Company Limited CGGC Dasu Hydropower Project Management in Pakistan Dasu Hydropower Project.

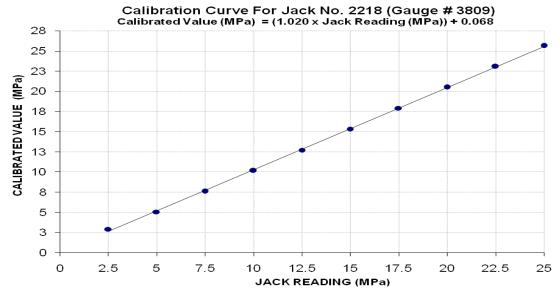
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/3678) (Page -1/2)

Reference to your Letter No. Nil, dated: 31/07/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2218, Gauge No. 3809) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa) Calibrated Range : Zero - 25 (MPa)

Hydraulic Jack Reading (MPa)	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0
Calibrated Load (kg)	19400	33400	50200	67200	84000	101400	118400	135400	152400	169400
Calibrated Pressure (Mpa)	2.94	5.06	7.60	10.17	12.71	15.35	17.92	20.49	23.07	25.64

The Ram Area of Jack = 647.9 cm^2



I/C Testing Laboratoires UET Lahore, Pakistan.

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- 2. The above results pertain to sample /samples supplied to this laboratory.
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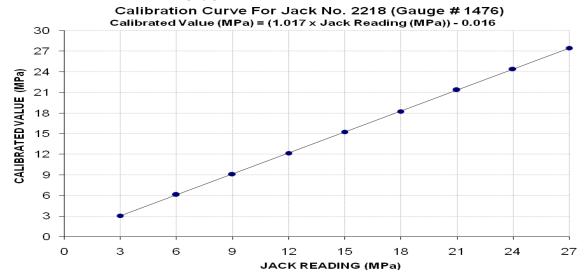
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/3678) (Page -2/2)

Reference to your Letter No. Nil, dated: 31/07/2023 on the subject cited above. One Hydraulic Jack (Jack No. 2218, Gauge No. 1476) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa) Calibrated Range : Zero - 27 (MPa)

Hydraulic Jack Reading (MPa)	3	6	9	12	15	18	21	24	27
Calibrated Load (kg)	20200	40400	60200	80400	100800	120400	141200	161400	181400
Calibrated Pressure (Mpa)	3.06	6.12	9.11	12.17	15.26	18.22	21.37	24.43	27.46

The Ram Area of Jack = 647.9 cm^2



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,

Assistant Resident Engineer

NESPAK

EPCM-PICIIP

Punjab Intermediate Cities Improvement Investment Program (PICIIP)

Consultancy Services for Engineering, Procurement and Construction Management

Rehabilitation / Improvement of Water Supply System Sahiwal – Lot 1

Reference # CED/TFL **3679** (Dr. M Rizwan Riaz)

Dated: 31-07-2023

Reference of the request letter # 3976/11/FA/01/Lot-1/01/399

Dated: 15-05-2023

Tension Test Report (Page – 1/2)

Date of Test 01-08-2023 Gauge length 2 inches

Description MS Pipe Steel Strip Tensile and Bend Test

(Hander) (Ha	(m) Size of Strip	X Section Area	(kg) Yield load	Breaking Load	(MPa)	Ultimate Stress	(ii) Elongation	% Elongation	Remarks
8	20.00x5.00	100.00	3100	4800	304	471	0.60	30.00	
10	27.30x6.00	163.80	6000	8200	359	491	0.60	30.00	
-	-	-	-	-	-	-		-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	1	1	1	-	-	1	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
	Only Two Sam	ples for T	ensile ar	nd Two Sa	mples fo	r Bend 7	Test		
	(inch) 8 10	(inch) (mm) 8 20.00x5.00 10 27.30x6.00	(inch) (mm) (mm²) 8 20.00x5.00 100.00 10 27.30x6.00 163.80 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	(inch) (mm) (mm²) (kg) 8 20.00x5.00 100.00 3100 10 27.30x6.00 163.80 6000 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	(inch) (mm) (mm²) (kg) (kg) 8 20.00x5.00 100.00 3100 4800 10 27.30x6.00 163.80 6000 8200 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	(inch) (mm) (mm²) (kg) (kg) (MPa) 8 20.00x5.00 100.00 3100 4800 304 10 27.30x6.00 163.80 6000 8200 359 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	(inch) (mm) (mm²) (kg) (kg) (MPa) (MPa) 8 20.00x5.00 100.00 3100 4800 304 471 10 27.30x6.00 163.80 6000 8200 359 491 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	(inch) (mm) (mm²) (kg) (kg) (MPa) (MPa) (in) 8 20.00x5.00 100.00 3100 4800 304 471 0.60	(inch) (mm) (mm²) (kg) (kg) (MPa) (MPa) (in) 8 20.00x5.00 100.00 3100 4800 304 471 0.60 30.00 10 27.30x6.00 163.80 6000 8200 359 491 0.60 30.00 - - - - - - - - - - - - - - - - - - - - -

Bend Test

Steel Strip taken from MS Pipe 8" Bend Test Through 180° is Satisfactory

Steel Strip taken from MS Pipe 10" Bend Test Through 180° is Satisfactory

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,

Assistant Resident Engineer

NESPAK

EPCM-PICIIP

Punjab Intermediate Cities Improvement Investment Program (PICIIP) Consultancy Services for Engineering, Procurement and Construction Management

Rehabilitation / Improvement of Water Supply System Sahiwal – Lot 1

Reference # CED/TFL 3679 (Dr. M Rizwan Riaz)

2023

Reference of the request letter # 3976/11/FA/01/Lot-1/01/399

2023

Thickness Test Report (Page – 2/2)

Date of Test 01-08-2023 Gauge length 2 inches

Description MS Pipe Thickness Test

Sr. No.	(honi)	(mm)	Remarks
1	8	5.00	
2	10	6.00	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
	Only T	wo Samples for Test	

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 31-07-

Dated: 15-05-

- 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

CANGE RIVERS

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 S.A. Sheikh & Co Lahore

Reference # CED/TFL <u>3681 (Dr. M Rizwan Riaz)</u>

Reference of the request letter # SASheikh/WB/EQSS5/2

Dated: 31-07-2023

Tension Test Report (Page - 1/1)

Date of Test 01-08-2023 Gauge length 2 inches

Description Steel Strip Tensile Test

Sr. No.	Designation	(mm) Size of Strip	X Section Area (mm ²)	(kg)	(ga) Breaking Load	(MPa)	Ultimate Stress	(ui) Elongation	% Elongation	Remarks				
1	Steel Strip	25.40x6.70	170.18	6300	9800	363	565	0.40	20.00					
-	-	-	-	ı	-	-	-	ı	-					
-														
-														
-	-	-	-	ı	1	-	-	ı	-					
-	-	-	-	ı	1	-	-	1	-					
-	-	-	-	-	-	-	-	-	-					
-														
	Only One Sample for Tensile and One Sample for Bend Test													
Stee	Bend Test Steel Strip 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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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

CANGE RIVERS

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 S.A. Sheikh & Co Lahore

Reference # CED/TFL <u>3682 (Dr. M Rizwan Riaz)</u>

Reference of the request letter # SASheikh/WB/EQSS5/1

Dated: 31-07-2023

Tension Test Report (Page - 1/1)

Date of Test 01-08-2023 Gauge length 2 inches

Description Steel Strip Tensile Test

Sr. No.	Designation	(mm) Size of Strip	X Section Area (mm ²)	(g) Yield load	Breaking Coad	(MPa)	Ultimate Stress	(ui)	% Elongation	Remarks		
1	Steel Strip	25.40x9.70	246.38	11000	16300	438	649	0.50	25.00			
-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-			
-	-	-	-	•	-	-	-	-	-			
•	-	1	1	1	1	-	ı	-	-			
-	-	-	1	1	1	-	-	-	-			
•	-	1	ı	ı	ı	-		-	-			
	Only One Sample for Tensile and One Sample for Bend Test											
	Bend Test											
Stee	el Strip Bend To	est Through 180	o is Satisf	actory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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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,

M/S Amanah Noor Residence Wapda Town, Lahore

Reference # CED/TFL <u>3685 (Dr. M Rizwan Riaz)</u>

Reference of the request letter # Nil

Dated: 31-07-2023

Tension Test Report (Page -1/1)

Date of Test 01-08-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load	Yield Stress (psi)			te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.376	3	0.375	0.11	0.111	3400	4800	68200	67780	96200	95700	1.40	17.5	
-	-	1	-	-	-	-	-	ı	-	-	-	-	1	
-	-	1	-	-	-	-	-	ı	-	-	-	-	1	
-	-	ı	-	-	-	-	-	ı	-	-	-	-	ı	
-	1	ı	-	-	-	-	-	ī	-	-	-	-	ı	
-	1	-	-	-	-	-	-	•	-	-	-	-	-	
	Note: only one samples for tensile and one sample for bend test													
	Bend Test													
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								

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,

Director Projects Sheikhoo Sugar Mills (Steel Division) Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL 3687 (Dr. Rizwan Azam) Dated: 01-08-2023 Dated: 31-07-2023

Reference of the request letter # Nil

Tension Test Report (Page -1/2)

01-08-2023 Date of Test Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diam Si		Aı	rea n²)	Yield load	Breaking Load	Yield	Stress si)	Ultimat	Ultimate Stress (psi)		% Elongation	Heat No.
Sr.	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% Elor	Heat
1	0.372	3	0.373	0.11	0.109	3500	4900	70200	70510	98200	98800	1.00	12.5	473R
2	0.369	3	0.372	0.11	0.108	3400	4800	68200	69080	96200	97600	1.40	17.5	474R
3	0.375	3	0.375	0.11	0.110	3200	4700	64200	64020	94200	94100	1.30	16.3	475R
4	0.373	3	0.374	0.11	0.110	3400	4900	68200	68270	98200	98400	1.60	20.0	477R
5	0.373 3 0.374 0.11 0.110 3600 5000 72200 72340 100200 100500										1.40	17.5	478R	
6 0.377 3 0.376 0.11 0.111 3400 4900 68200 67560 98200 97400 1.00												12.5	479R	
7	0.375	3	0.375	0.11	0.110	3300	4800	66200	65980	96200	96000	1.40	17.5	480R
8	0.376	3	0.375	0.11	0.111	3600	5000	72200	71790	100200	99700	1.20	15.0	481R
9	0.373	3	0.373	0.11	0.110	3400	4900	68200	68430	98200	98700	1.50	18.8	482R
10	0.373	3	0.374	0.11	0.110	3400	4800	68200	68360	96200	96600	1.30	16.3	483R
11	0.365	3	0.370	0.11	0.107	3300	4700	66200	67800	94200	96600	1.50	18.8	484R
12	0.375	3	0.375	0.11	0.110	3400	4800	68200	68010	96200	96100	1.40	17.5	485R
13	0.375	3	0.375	0.11	0.110	3500	4800	70200	69940	96200	96000	1.10	13.8	487R
	Note: only Thirteen samples for tensile test													
	Bend Test													

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,

Director Projects Sheikhoo Sugar Mills (Steel Division) Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL 3687 (Dr. Rizwan Azam)

Reference of the request letter # Nil

Tension Test Report (Page -2/2)

Date of Test 01-08-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

1 0.375 3 0.375 0.11 0.110 3500 4900 70200 69980 98200 98000 1.30 16.3 48 2 0.373 3 0.374 0.11 0.110 3500 4900 70200 70370 98200 98600 1.40 17.5 49 3 0.373 3 0.373 0.11 0.110 3400 4900 68200 68410 98200 98600 1.30 16.3 49 4 0.371 3 0.373 0.11 0.109 3500 4900 70200 70720 98200 99100 1.40 17.5 49 5 0.371 3 0.373 0.11 0.109 3400 4900 68200 68680 98200 99000 1.30 16.3 49 4 4 4 4 4 4 4 4	Sr. No.	Weight	Diam Si			Area (in²)				Ultimate Stress (psi)		Elongation	% Elongation	Heat No.	
2 0.373 3 0.374 0.11 0.110 3500 4900 70200 70370 98200 98600 1.40 17.5 49 3 0.373 3 0.373 0.11 0.110 3400 4900 68200 68410 98200 98600 1.30 16.3 49 4 0.371 3 0.373 0.11 0.109 3500 4900 70200 70720 98200 99100 1.40 17.5 49 5 0.371 3 0.373 0.11 0.109 3400 4900 68200 68680 98200 99000 1.30 16.3 49 6 0.367 3 0.371 0.11 0.108 3400 4700 68200 69390 94200 96000 1.40 17.5 49 7 0.370 3 0.372 0.11 0.109 3300 5100 66200 66880 102200 103400 1.20 15.0 49 8 0.370 3 0.372 0.11 0.109 <th></th> <th>(lbs/ft)</th> <th>Nominal (#)</th> <th>Actual (inch)</th> <th>Nominal</th> <th>Actual</th> <th>(kg)</th> <th>(kg)</th> <th>Nominal</th> <th>Actual</th> <th>Nominal</th> <th>Actual</th> <th>(inch)</th> <th>I %</th> <th>Н</th>		(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	I %	Н
3 0.373 3 0.373 0.11 0.110 3400 4900 68200 68410 98200 98600 1.30 16.3 49.0 4 0.371 3 0.373 0.11 0.109 3500 4900 70200 70720 98200 99100 1.40 17.5 49.0 5 0.371 3 0.373 0.11 0.109 3400 4900 68200 68680 98200 99000 1.30 16.3 49.0 6 0.367 3 0.371 0.11 0.108 3400 4700 68200 69390 94200 96000 1.40 17.5 49.0 7 0.370 3 0.372 0.11 0.109 3300 5100 66200 66880 102200 103400 1.20 15.0 49.0 8 0.370 3 0.372 0.11 0.109 3400 4800 68200 68910 96200 97200 1.40 </td <td>1</td> <td>0.375</td> <td>3</td> <td>0.375</td> <td>0.11</td> <td>0.110</td> <td>3500</td> <td>4900</td> <td>70200</td> <td>69980</td> <td>98200</td> <td>98000</td> <td>1.30</td> <td>16.3</td> <td>489R</td>	1	0.375	3	0.375	0.11	0.110	3500	4900	70200	69980	98200	98000	1.30	16.3	489R
4 0.371 3 0.373 0.11 0.109 3500 4900 70200 70720 98200 99100 1.40 17.5 49 5 0.371 3 0.373 0.11 0.109 3400 4900 68200 68680 98200 99000 1.30 16.3 49 6 0.367 3 0.371 0.11 0.108 3400 4700 68200 69390 94200 96000 1.40 17.5 49 7 0.370 3 0.372 0.11 0.109 3300 5100 66200 66880 102200 103400 1.20 15.0 49 8 0.370 3 0.372 0.11 0.109 3400 4800 68200 68910 96200 97300 1.30 16.3 50 9 0.370 3 0.372 0.11 0.109 3500 4800 70200 70850 98200 97200 1.40	2	0.373	3	0.374	0.11	0.110	3500	4900	70200	70370	98200	98600	1.40	17.5	492R
5 0.371 3 0.373 0.11 0.109 3400 4900 68200 68680 98200 99000 1.30 16.3 49 6 0.367 3 0.371 0.11 0.108 3400 4700 68200 69390 94200 96000 1.40 17.5 49 7 0.370 3 0.372 0.11 0.109 3300 5100 66200 66880 102200 103400 1.20 15.0 49 8 0.370 3 0.372 0.11 0.109 3400 4800 68200 68910 96200 97300 1.30 16.3 50 9 0.370 3 0.372 0.11 0.109 3500 4800 70200 70850 96200 97200 1.40 17.5 50 10 0.372 3 0.373 0.11 0.109 3500 4900 70200 70580 98200 98800 1.40	3	0.373	3	0.373	0.11	0.110	3400	4900	68200	68410	98200	98600	1.30	16.3	493R
6 0.367 3 0.371 0.11 0.108 3400 4700 68200 69390 94200 96000 1.40 17.5 49 7 0.370 3 0.372 0.11 0.109 3300 5100 66200 66880 102200 103400 1.20 15.0 49 8 0.370 3 0.372 0.11 0.109 3400 4800 68200 68910 96200 97300 1.30 16.3 50 9 0.370 3 0.372 0.11 0.109 3500 4800 70200 70850 96200 97200 1.40 17.5 50 10 0.372 3 0.373 0.11 0.109 3500 4900 70200 70580 98200 98800 1.40 17.5 50 11 0.374 3 0.373 0.11 0.109 3400 4800 68200 68750 96200 97100 1.40	4	0.371	3	0.373	0.11	0.109	3500	4900	70200	70720	98200	99100	1.40	17.5	494R
7 0.370 3 0.372 0.11 0.109 3300 5100 66200 66880 102200 103400 1.20 15.0 49.0 8 0.370 3 0.372 0.11 0.109 3400 4800 68200 68910 96200 97300 1.30 16.3 50.0 9 0.370 3 0.372 0.11 0.109 3500 4800 70200 70850 96200 97200 1.40 17.5 50.0 10 0.372 3 0.373 0.11 0.109 3500 4900 70200 70580 98200 98800 1.40 17.5 50.0 11 0.371 3 0.373 0.11 0.109 3400 4800 68200 68750 96200 97100 1.40 17.5 50.0 12 0.374 3 0.374 0.11 0.110 3500 4900 70200 70140 98200 98200 1.2	5	0.371 3 0.373 0.11 0.109 3400 4900 68200 68680 98200 990								99000	1.30	16.3	496R		
8 0.370 3 0.372 0.11 0.109 3400 4800 68200 68910 96200 97300 1.30 16.3 50 9 0.370 3 0.372 0.11 0.109 3500 4800 70200 70850 96200 97200 1.40 17.5 50 10 0.372 3 0.373 0.11 0.109 3500 4900 70200 70580 98200 98800 1.40 17.5 50 11 0.371 3 0.373 0.11 0.109 3400 4800 68200 68750 96200 97100 1.40 17.5 50 12 0.374 3 0.374 0.11 0.110 3500 4900 70200 70140 98200 98200 1.20 15.0 50 Note: only Twelve samples for tensile test	6	0.367	3	0.371	0.11	0.108	3400	4700	68200	69390	94200	96000	1.40	17.5	497R
9 0.370 3 0.372 0.11 0.109 3500 4800 70200 70850 96200 97200 1.40 17.5 50 10 0.372 3 0.373 0.11 0.109 3500 4900 70200 70580 98200 98800 1.40 17.5 50 11 0.371 3 0.373 0.11 0.109 3400 4800 68200 68750 96200 97100 1.40 17.5 50 12 0.374 3 0.374 0.11 0.110 3500 4900 70200 70140 98200 98200 1.20 15.0 50 Note: only Twelve samples for tensile test	7	0.370	3	0.372	0.11	0.109	3300	5100	66200	66880	102200	103400	1.20	15.0	498R
10 0.372 3 0.373 0.11 0.109 3500 4900 70200 70580 98200 98800 1.40 17.5 50 11 0.371 3 0.373 0.11 0.109 3400 4800 68200 68750 96200 97100 1.40 17.5 50 12 0.374 3 0.374 0.11 0.110 3500 4900 70200 70140 98200 98200 1.20 15.0 50 Note: only Twelve samples for tensile test	8	0.370	3	0.372	0.11	0.109	3400	4800	68200	68910	96200	97300	1.30	16.3	500R
11 0.371 3 0.373 0.11 0.109 3400 4800 68200 68750 96200 97100 1.40 17.5 50 12 0.374 3 0.374 0.11 0.110 3500 4900 70200 70140 98200 98200 1.20 15.0 50 Note: only Twelve samples for tensile test	9	0.370	3	0.372	0.11	0.109	3500	4800	70200	70850	96200	97200	1.40	17.5	502R
12 0.374 3 0.374 0.11 0.110 3500 4900 70200 70140 98200 98200 1.20 15.0 50 Note: only Twelve samples for tensile test	10	0.372	3	0.373	0.11	0.109	3500	4900	70200	70580	98200	98800	1.40	17.5	503R
Note: only Twelve samples for tensile test	11	0.371	3	0.373	0.11	0.109	3400	4800	68200	68750	96200	97100	1.40	17.5	506R
	12	0.374	3	0.374	0.11				l .	l .		98200	1.20	15.0	507R
Bend Test	Note: only Twelve samples for tensile test														
Dellu Test	Rend Test														
		Bend Test													

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 01-08-2023 Dated: 31-07-2023

- 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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