



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/12/2374

Dated: 29-11-2022

Dated of Test: 07-12-2022

To

Assistant Director (QCD)
WASA, LDA, Lahore
(M/s Allah Hoo Yasir Pipe Factory)

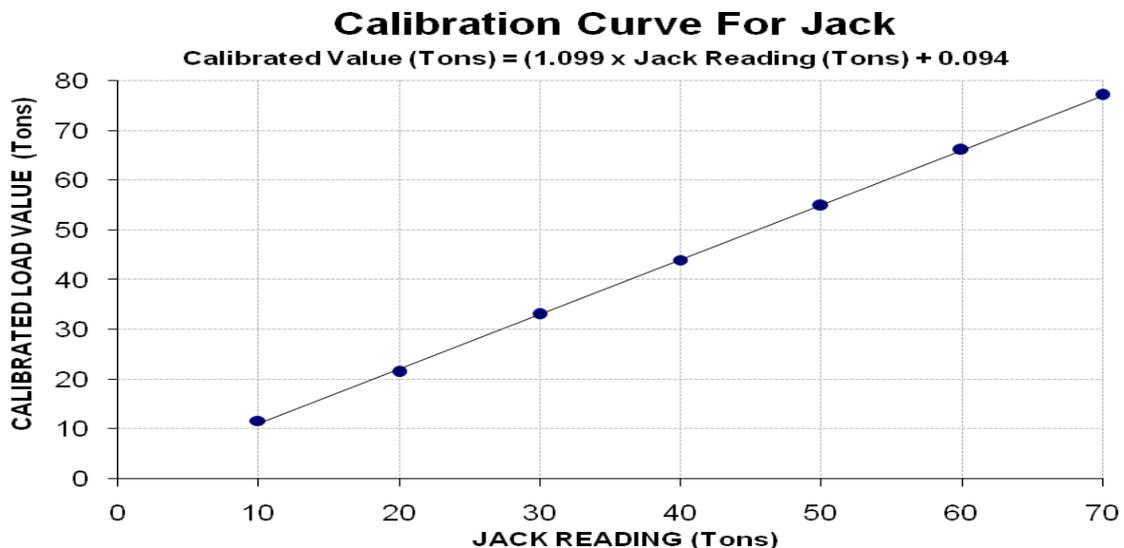
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/12/2374)

Reference to your Letter No. QCD/2330-31, Dated: 28/11/2022 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 200 (Ton)
Calibrated Range : Zero - 70 (Ton)

Hydraulic Jack Reading (Ton)		10	20	30	40	50	60	70
Calibrated Load	(kg)	10600	19500	30000	40000	49900	60100	70100
	(Ton)	11.67	21.47	33.03	44.04	54.94	66.18	77.19

1000 kg = 1.1011 Ton



I/C Testing Laboratories
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/12/2389

Dated: 02-12-2022

Dated of Test: 07-12-2022

To

Assistant Director (QCD)
WASA, LDA, Lahore
(M/s Shezone Pipe Industries)

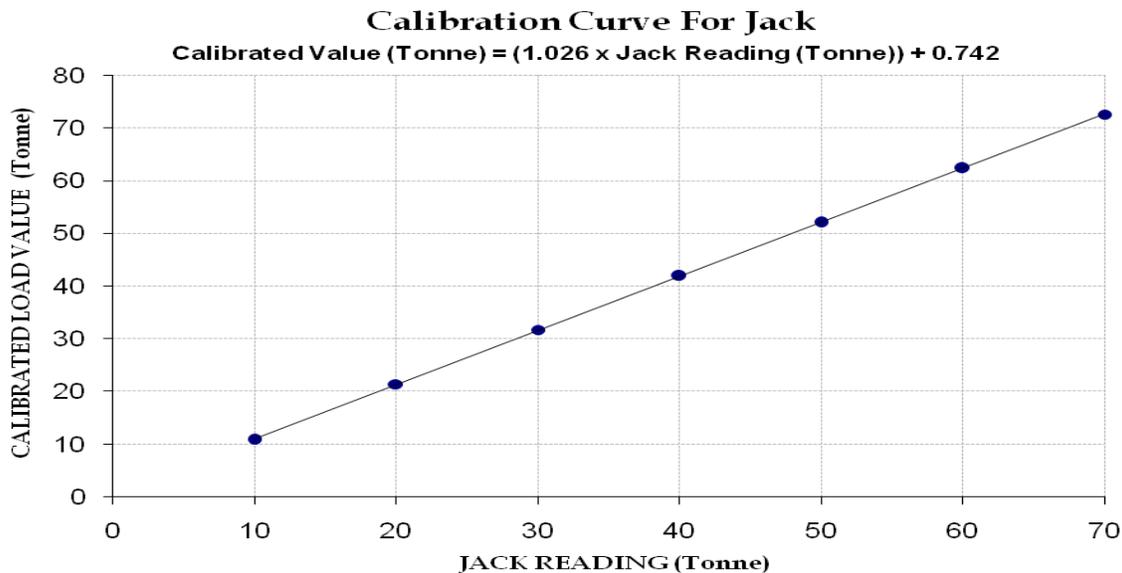
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/12/2389)

Reference to your Letter No. QCD/2340-41, Dated: 28/11/2022 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 100 (Tonne)
Calibrated Range : Zero - 70 (Tonne)

Hydraulic Jack Reading (Tonne)		10	20	30	40	50	60	70
Calibrated Load	(kg)	10800	21400	31700	41900	52000	62300	72600
	(Tonne)	10.80	21.40	31.70	41.90	52.00	62.30	72.60

1 Tonne = 1000 kg



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
Pakistan. Ph: 92-42-99029202

To,
 Deputy General Manager Projects
 Habib Rafiq Engineering (Pvt.) Limited
 Construction of Sky Gardens Tower, Lahore

Reference # CED/TFL **2415** (Dr. Rizwan Riaz) Dated: 07-12-2022
 Reference of the request letter # HRLE/SKG/2022/091/2418-19/RETEST Dated: 07-12-2022

Tension Test Report (Page -1/1)

Date of Test 07-12-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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			
01-RE	0.407	10	9.91	0.12	0.120	3100	5200	56952	57110	95533	95800	1.40	17.5	Afco Steel
02-RE	0.406	10	9.90	0.12	0.119	3300	5300	60627	60930	97370	97900	1.40	17.5	
03-RE	0.420	10	10.07	0.12	0.123	3100	5400	56952	55350	99207	96500	1.60	20.0	
04-RE	0.404	10	9.88	0.12	0.119	3800	6800	69812	70510	124927	126200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
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/12/2417

Dated: 06-12-2022

Dated: 06-12-2022

To

M/S China Gezhouba Group Company Limited
Pakistan
Construction of Mohmand Dam Hydropower Project - Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical
and Mechanical Works and Hydraulic Steel Structures.

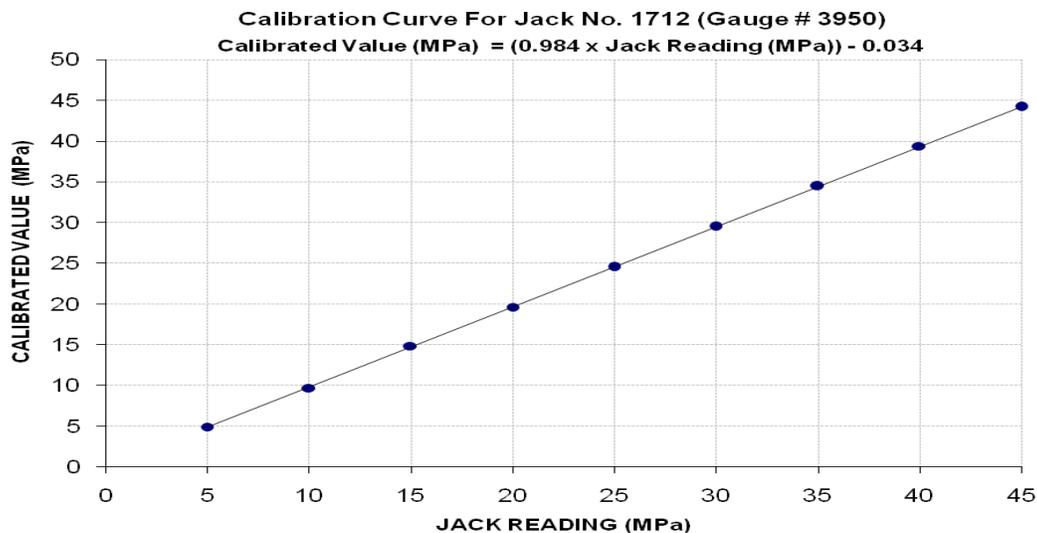
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/2417) (Page -1/2)

Reference to your Letter No. MDSYS-203, dated: 06/12/2022 on the subject cited above. One Hydraulic Jack (Jack No. 1712, Gauge No. 3950, Pump No. 2286) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	9600	18800	28900	38200	47700	57400	67000	76600	86000
Calibrated Pressure (Mpa)	4.93	9.66	14.85	19.63	24.52	29.50	34.44	39.37	44.20

The Ram Area of Jack = 190.8 cm²



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

Ref: CED/TFL/12/2417

Dated: 06-12-2022

Dated: 06-12-2022

To

M/S China Gezhouba Group Company Limited
Pakistan
Construction of Mohmand Dam Hydropower Project - Contract No. ICB MDHP-01,
Construction of Civil Works Including Design, Supply and Installation of Electrical
and Mechanical Works and Hydraulic Steel Structures.

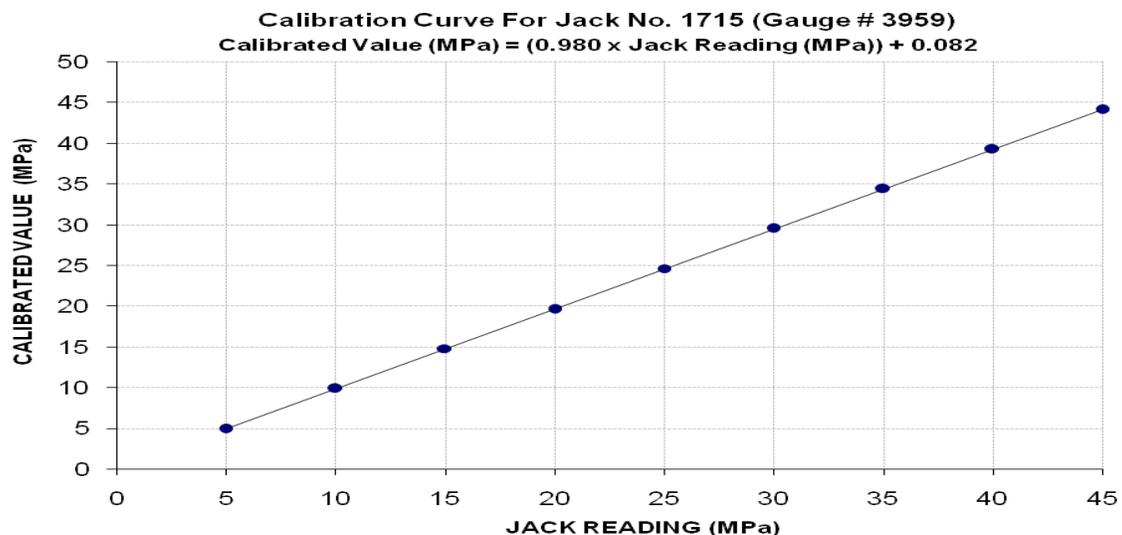
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/2417) (Page -2/2)

Reference to your Letter No. MDSYS-203, dated: 06/12/2022 on the subject cited above. One Hydraulic Jack (Jack No. 1715, Gauge No. 3959, Pump No. 2284) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 45 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	9600	19300	28800	38200	47900	57500	67000	76400	85900
Calibrated Pressure (Mpa)	4.93	9.92	14.80	19.63	24.62	29.55	34.44	39.27	44.15

The Ram Area of Jack = 190.8 cm²



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,
 Sub Divisional Officer
 Highway Sub Division
 Mianwali

Reference # CED/TFL **2407** (Dr. Usman Akmal)
 Reference of the request letter # 30/SDO/Mwi

Dated: 06-12-2022
 Dated: 06-01-2022

Tension Test Report (Page -1/1)

Date of Test 08-12-2022
 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	0.379	3	0.377	0.11	0.112	4200	5100	84200	83000	102200	100800	0.80	10.0	
2	0.382	3	0.378	0.11	0.112	4500	5300	90200	88430	106200	104200	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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.

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

To,
 Manager Procurement
 Ravi Construction Company
 Orient Commercial Plaza at Plot # 34, Quaid-e-Azam Town College Road, Lahore

Reference # CED/TFL **2409** (Dr. Usman Akmal)
 Reference of the request letter # UET/RCC/393/22

Dated: 06-12-2022
 Dated: 06-01-2022

Tension Test Report (Page -1/1)

Date of Test 08-12-2022
 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	0.376	3/8	0.375	0.11	0.110	3400	4900	68200	67850	98200	97800	1.10	13.8	
2	0.370	3/8	0.372	0.11	0.109	3300	4800	66200	66900	96200	97300	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:

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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

Dualization of Road from Gujranwala to M-2 Interchange at Kot Sarwar via Hafizabad
 km 6.20 to km 80.35 Length 74.15 km in District Gujranwala & Hafizabad (Section km
 55.40 – 79.35, L= 23.95 km)

Reference # CED/TFL **2410** (Dr. Usman Akmal)

Dated: 06-12-2022

Reference of the request letter # SA-466F/103/GH/ML/Lab/58

Dated: 05-12-2022

Tension Test Report (Page -1/1)

Date of Test 08-12-2022

Gauge length 8 inches

Description Deformed and Plain 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	0.416	3	0.395	0.11	0.122	3800	5700	76200	68430	114300	102700	1.00	12.5	Deformed
2	0.420	3	0.396	0.11	0.123	3900	5800	78200	69630	116300	103600	1.20	15.0	
3	4.291	10	1.267	1.27	1.261	28600	48400	49700	49980	84000	84600	1.50	18.8	Plain
4	4.295	10	1.268	1.27	1.262	28000	47600	48600	48890	82700	83200	1.90	23.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 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
 Engineering Consultancy Services Punjab (Pvt) Ltd
 Infrastructure Development and Construction of Affordable Housing Units at Moza Rakh
 Paji, Tehsil Raiwind, District Lahore

Reference # CED/TFL **2414** (Dr. Usman Akmal)
 Reference of the request letter # ECSP/RE/LH/85

Dated: 07-12-2022
 Dated: 05-12-2022

Tension Test Report (Page -1/1)

Date of Test 08-12-2022
 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	0.375	3	0.375	0.11	0.110	3600	4800	72200	72010	96200	96100	1.30	16.3	Mughal Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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
 PHE Sub Division
 Karor Lal Easan
 (Provision of Reverse Osmosis (RO) Plant Fatehpur Tehsil Karor, District Layyah)

Reference # CED/TFL **2416** (Dr. Usman Akmal)
 Reference of the request letter # 449

Dated: 07-12-2022
 Dated: 04-10-2022

Tension Test Report (Page -1/1)

Date of Test 08-12-2022
 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	0.377	3/8	0.376	0.11	0.111	3600	4900	72200	71520	98200	97400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" 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
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Pakistan. Ph: 92-42-99029202

To,

M/S Arshad Mehmood Warsi
 Dream Gardens Wazirabad
 Dream Gardens, Daska Road Wazirabad
 Site Store, 234 & 243 Ph-1 Project, DGL.

Reference # CED/TFL **2418** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 07-12-2022
 Dated: 07-12-2022

Tension Test Report (Page -1/1)

Date of Test 08-12-2022
 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	0.370	3/8	0.372	0.11	0.109	4200	5300	84200	85150	106200	107500	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" 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,

Executive Engineer EHV
 (Civil) NTDC Lahore
 Construction of Storm Water Drainage, 7.5 Meter Wide Road, Paved Floor & Boundary
 Wall Extension for Warehouse Extension at 500/220kV Grid Station Gatti Faisalabad.

Reference # CED/TFL **2419** (Dr. Usman Akmal)

Dated: 07-12-2022

Reference of the request letter # 1697-99/XEN/EHV/WE-67, 21

Dated: 10-11-2022

Tension Test Report (Page -1/1)

Date of Test

08-12-2022

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	0.369	3	0.372	0.11	0.109	3700	5400	74200	75100	108200	109600	1.20	15.0	Batala Premium Steel
2	0.370	3	0.372	0.11	0.109	3700	5400	74200	75030	108200	109500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Site Engineer
 Lord's Residencia
 Valencia Society Lahore

Reference # CED/TFL **2420** (Dr. Usman Akmal)
 Reference of the request letter # R.O-001

Dated: 07-12-2022
 Dated: 07-12-2022

Tension Test Report (Page -1/2)

Date of Test 08-12-2022
 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	0.380	3/8	0.377	0.11	0.112	4000	5000	80200	79030	100200	98800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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,
 Site Engineer
 Lord's Residencia
 Valencia Society Lahore

Reference # CED/TFL **2420** (Dr. Usman Akmal)
 Reference of the request letter # R.N-001

Dated: 07-12-2022
 Dated: 07-12-2022

Tension Test Report (Page -2/2)

Date of Test 08-12-2022
 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	0.373	3	0.373	0.11	0.109	3700	5800	74200	74480	116300	116800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar 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
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Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
 G3 Engineering Consultants (Pvt.) Ltd.
 Construction of DHA Newlife Residency Apartments at 273/1 Q Block Phase-II DHA,
 Lahore

Reference # CED/TFL **2424** (Dr. M Kashif)
 Reference of the request letter # G3/DHA-NLD/RE/121

Dated: 08-12-2022
 Dated: 08-12-2022

Tension Test Report (Page -1/1)

Date of Test 08-12-2022
 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	0.369	3	0.372	0.11	0.109	3500	5200	70200	71040	104200	105600	1.00	12.5	Almoiz Steel
2	0.366	3	0.370	0.11	0.108	3400	5200	68200	69680	104200	106600	1.30	16.3	
3	0.371	3	0.373	0.11	0.109	3500	5200	70200	70760	104200	105200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples 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.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

Mr. Talha Zahid
 E & dc Associates
 Construction of Additional Girls Hostel and House Officer Hostel at CKMC, Kharian
 Cantt.

Reference # CED/TFL **2425** (Dr. M Kashif)
 Reference of the request letter # E&dc-080/01

Dated: 08-12-2022
 Dated: 07-12-2022

Tension Test Report (Page -1/1)

Date of Test 08-12-2022
 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	0.369	3	0.372	0.11	0.109	3500	4800	70200	71070	96200	97500	1.40	17.5	
2	0.372	3	0.373	0.11	0.109	3400	4700	68200	68480	94200	94700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Mr. Talha Zahid (Grad. Civil Engr. E & dc Associates)

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

Ref: CED/TFL/12/2427

Dated: 08-12-2022

Dated of Test: 08-12-2022

To

M/S Haji Altaf & Sons
Lahore

**Subject: - TEST RESULT REPORT FOR RECYCLED POLYCARBONATE (RPC)
MANHOLE COVER FOR BEARING LOAD TEST**

Reference to your letter no. Nil dated: 08/12/2022 on the above mentioned subject. One Recycled Polycarbonate (RPC) Manhole Cover for bearing load test as received by us has been tested and results are given below:

Sr. No.	Diameter of Cover (cm)	Diameter of loading plate (cm)	Breaking Load (kg)
1	63.90	49.70	23000

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
Pakistan. Ph: 92-42-99029202

To,
 Project Manager,
 One Liberty,
 Shopping with Style,
 Gulberg III, Lahore.

Reference # CED/TFL **2428** (Dr. Rizwan Riaz)
 Reference of the request letter # OL/OS/2022/25

Dated: 08-12-2022
 Dated: 08-12-2022

Tension Test Report (Page -1/1)

Date of Test 09-12-2022
 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	0.385	3	0.380	0.11	0.113	3700	5100	74200	72080	102200	99400	1.00	12.5	
2	0.388	3	0.381	0.11	0.114	3400	5200	68200	65700	104200	100500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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.

Note:

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I/C Testing Laboratories
UET Lahore, Pakistan.

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