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/04/1223 Dated: 07-04-2022

Dated of Test: 12-04-2022

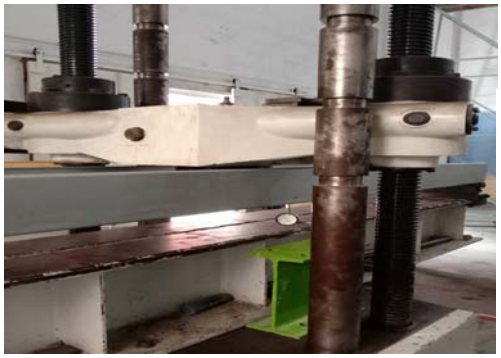
To

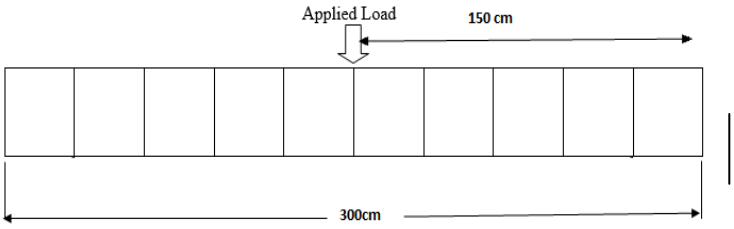
Quality Inspector
M/S Alfazal Engineering Pakistan, Lahore,
(PARR-3-402 (17) 21 - Proc) (Pakistan Institute of Nuclear Science and Technology)

Subject: LADDER CABLE TRAY FOR LOAD TEST (Page -1/2)

Reference to your letter No. ALF-22-04-0012, dated: 06.04.2022, on the subject cited above. One Ladder Cable Tray (Size: L=300mm, W=450mm, H=150mm, T=2.5mm) for load as received by us test has been tested and the results are tabulated blew:

Load		Deflection	Remarks
(kN)	(kg)	(mm)	
0	0	0.00	
1	101.9	1.65	
2	203.9	2.79	
3	305.8	4.45	
4	407.7	6.60	
4.9	499.5	11.68	Max. load applied





Loading Arrangement

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
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3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

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/04/1223 Dated: 07-04-2022

Dated of Test: 12-04-2022

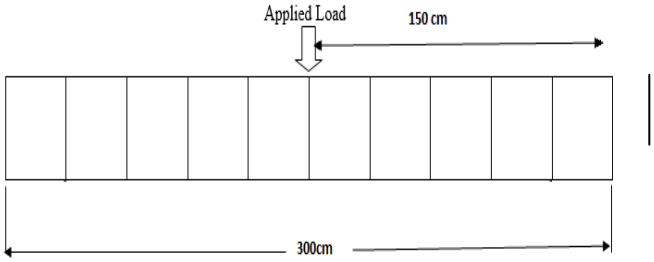
To

Quality Inspector
M/S Alfazal Engineering Pakistan, Lahore,
(PARR-3-402 (17) 21 - Proc) (Pakistan Institute of Nuclear Science and Technology)

Subject: LADDER CABLE TRAY FOR LOAD TEST (Page -2/2)

Reference to your letter No. ALF-22-04-0012, dated: 06.04.2022, on the subject cited above. One Ladder Cable Tray (Size: L=300mm, W=225mm, H=125mm, T=2mm) for load as received by us test has been tested and the results are tabulated blew:

Load		Deflection	Remarks
(kN)	(kg)	(mm)	
0	0	0.00	
1	101.9	2.41	
2	203.9	5.08	
3	305.8	8.26	
4	407.7	10.80	
4.5	458.7	13.46	Max. load applied



Loading Arrangement

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,
M/S M. Saleem Construction Company
Sheikhupura

Reference # CED/TFL **1233** (Dr. Usman Akmal) Dated: 11-04-2022
Reference of the request letter # Nil Dated: 11-04-2022

Tension Test Report (Page -1/1)

Date of Test 12-04-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.360	3/8	0.367	0.11	0.106	3400	4700	68200	70730	94200	97800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º 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,
M/S SAMR Trust
Sialkot
(Construction of SAMR Hospital – Sialkot)

Reference # CED/TFL **1234** (Dr. Usman Akmal) Dated: 11-04-2022
Reference of the request letter # Nil Dated: 28-03-2022

Tension Test Report (Page -1/1)

Date of Test 12-04-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3	0.373	0.11	0.109	3800	5100	76200	76810	102200	103100	0.70	8.8	
2	0.372	3	0.373	0.11	0.109	3900	5100	78200	78700	102200	103000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Dia Bar Bend Test Through 180º 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,
M/S Usman Ibrahim Construction
Lahore

Reference # CED/TFL **1238** (Dr. Usman Akmal) Dated: 11-04-2022
Reference of the request letter # Nil Dated: 11-04-2022

Tension Test Report (Page -1/1)

Date of Test 12-04-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.372	3	0.373	0.11	0.109	3500	4700	70200	70620	94200	94900	0.80	10.0	
2	0.367	3	0.371	0.11	0.108	3400	4600	68200	69430	92200	94000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Dia Bar Bend Test Through 180º 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,
Abdul Qadir
Lahore

Reference # CED/TFL **1242** (Dr. Usman Akmal) Dated: 11-04-2022
Reference of the request letter # Nil Dated: 11-04-2022

Tension Test Report (Page -1/1)

Date of Test 12-04-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3	0.374	0.11	0.110	3600	5400	72200	72220	108200	108400	1.00	12.5	
2	0.393	3	0.383	0.11	0.115	3700	5600	74200	70670	112300	107000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Dia Bar Bend Test Through 180º 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,
Project Manager
Dupak Properaties (Pvt) Ltd
Defence view Apartments at Shanghai Road Lahore

Reference # CED/TFL **1243** (Dr. Usman Akmal) Dated: 11-04-2022
Reference of the request letter # Dupak/DVA/059 Dated: 10-04-2022

Tension Test Report (Page -1/1)

Date of Test 12-04-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3	0.374	0.11	0.110	3300	4800	66200	66110	96200	96200	1.50	18.8	
2	0.389	3	0.381	0.11	0.114	3500	4900	70200	67550	98200	94600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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,
Executive Engineer (B&W)
UVAS, Lahore
(Provision of Urgently Needed Female Hostel Facilities at University of Veterinary & Animal Sciences at Ravi Campus, Pattoki)

Reference # CED/TFL **1245** (Dr. Usman Akmal) Dated: 11-04-2022
Reference of the request letter # E.E 732 Dated: 10-03-2022

Tension Test Report (Page -1/1)

Date of Test 12-04-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3/8	0.373	0.11	0.109	3400	5000	68200	68700	100200	101100	1.10	13.8	Moiz Steel
2	0.372	3/8	0.373	0.11	0.109	3400	4900	68200	68480	98200	98700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º 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,
M/S W&K Engineering Works (Pvt) Limited
Lahore

Reference # CED/TFL **1246** (Dr. USman Akmal) Dated: 11-04-2022
Reference of the request letter # Nil Dated: 11-04-2022

Tension Test Report

Date of Test 12-04-2022
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	**12**	**0.471**	**6200**	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

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,
M/S Defence Housing Authority.
Lahore Cantt
(External Electrification System (U/G) IVY Green Sector-Z, DHA Phase-VIII) – (M/s NLC)

Reference # CED/TFL **1249** (Dr. Asad Ali) Dated: 12-04-2022
Reference of the request letter # 408/241/32/Lab/95/196-197 Dated: 11-04-2022

Tension Test Report (Page -1/1)

Date of Test 12-04-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.377	3	0.375	0.11	0.111	3770	4860	75600	75060	97400	96800	1.00	12.5	Kamran Steel
2	0.376	3	0.375	0.11	0.111	3790	4960	76000	75530	99400	98900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º 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,
M/S Defence Housing Authority.
Lahore Cantt
(Const of 18 Green Apartment Complex DRGCC DHA Phase-VI) – (M/s Construct)

Reference # CED/TFL **1250** (Dr. Ali Ahmed) Dated: 12-04-2022
Reference of the request letter # 408/241/32/Lab/96/309 Dated: 12-04-2022

Tension Test Report (Page -1/1)

Date of Test 13-04-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.284	10	1.266	1.27	1.259	37000	55400	64300	64760	96200	97000	1.50	18.8	Kamran Steel
2	4.280	10	1.266	1.27	1.258	38600	56600	67000	67630	98300	99200	1.40	17.5	
3	4.179	10	1.251	1.27	1.228	39600	55000	68800	71060	95500	98700	1.20	15.0	
4	4.278	10	1.265	1.27	1.257	37200	55800	64600	65210	96900	97900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only four samples for tensile and two samples for bend test

Bend Test

#10 Bar Bend Test Through 180º is Satisfactory

#10 Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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