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 OHWT & Tube Well X-Block DHA Phase-III)(M/s NA Associates)

Reference # CED/TFL **33941** (Dr. Safeer Abbas) Dated: 02-10-2019
Reference of the request letter # 408/241/E/Lab/723/34 Dated: 01-10-2019

Tension Test Report (Page – 1/1)

Date of Test 08-10-2019
Gauge length 2 inches
Description MS Pipe 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
	(inch)		(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Pipe	8	25.90x4.80	124.32	5200	6000	410.33	473.46	0.70	35.00	
2		8	25.90x4.80	124.32	5000	5900	394.55	465.56	0.60	30.00	
3	MS Pipe	12	26.10x6.00	156.60	6500	7500	407.18	469.83	0.80	40.00	
4		12	26.10x6.00	156.60	6200	7400	388.39	463.56	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Two Samples for Bend Test											
Bend Test											
Strip Taken from MS Pipe (8") Bend Test Through 180º is Satisfactory											
Strip Taken from MS Pipe (12") Bend Test Through 180º is Satisfactory											

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.
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

To,
Assistant Director o/o
Project Director (HVDC)
NTDC Lahore
(HVDC Transmission Line in Lot-8)
Reference # CED/TFL **33965** (Dr. Safeert Abbas) Dated: 04-10-2019
Reference of the request letter # 2001-05/PD/HVDC/NTDC/LHR Dated: 04-10-2019

Tension Test Report (Page -1/1)

Date of Test 08-10-2019
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	0.372	0.11	0.109	2600	4000	52100	52620	80200	81000	1.50	18.8	
2	0.371	3	0.373	0.11	0.109	2600	4000	52100	52520	80200	80800	1.80	22.5	
3	0.370	3	0.372	0.11	0.109	3100	4600	62200	62840	92200	93300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and three samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														
#3 Bar Bend Test Through 180º is Satisfactory														
#3 Bar Bend Test Through 180º is Satisfactory														

Witness by Engr. Muaz Yasin (HVDC NTDC), M. Abbas (RE OE) & Dr. Ali Adnan (CET Lot-8)

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.
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

To,
M/S China Electric Power Equipment and Technology Co., Ltd
Pak Matiari-Lahore Transmission Company (Pvt) Ltd
±660kV Matiari-Lahore HVDC Transmission Project Lot-06

Reference # CED/TFL **33968** (Dr. Safeer Abbas) Dated: 07-10-2019
Reference of the request letter # CET/HVDC/RSP/LOT-6 Dated: 07-10-2019

Tension Test Report (Page – 1/1)

Date of Test 08-10-2019
Description Steel Wire Rope Tensile Test

Sr. No.	Diameter	Measured weight	Breaking Load		Remarks / Coil No.
	(mm)	(kg/km)	(kN)	(kg)	
1	**11**	**406.25**	**57.30**	**5841**	
2	**11**	**402.83**	**53.20**	**5423**	
3	**11**	**402.67**	**58.20**	**5933**	
4	**16**	**890.14**	**140.20**	**14292**	
5	**16**	**889.36**	**146.50**	**14934**	
6	**16**	**897.94**	**142.20**	**14495**	
7	**22**	**1742.31**	**197.30**	**20112**	
8	**22**	**1750.00**	**183.30**	**18685**	
9	**22**	**1734.48**	**203.20**	**20714**	
Only nine sample for Test					

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.
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

To,
Sub Engineer
PASSSCO Div: Multan
(Dodowns Project Musa Virk Khanewal)

Reference # CED/TFL **33969** (Dr. Safeer Abbas) Dated: 07-10-2019
Reference of the request letter # PASSCO/EE/MTN/19/238 Dated: 01-10-2019

Tension Test Report (Page -1/1)

Date of Test 08-10-2019
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	0.372	0.11	0.109	3200	5200	64200	64770	104200	105300	1.00	12.5	
2	0.377	3/8	0.376	0.11	0.111	3200	5100	64200	63620	102200	101400	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 180º is Satisfactory														

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.
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

To,
Project Coordinator
Sinaco Engineers (Pvt) Limited
Construction of Mosque at Wapda Town, Lahore

Reference # CED/TFL **33970** (Dr. Safeer Abbas) Dated: 07-10-2019
Reference of the request letter # SEL/LHR/C-441/10429 Dated: 07-10-2019

Tension Test Report (Page -1/1)

Date of Test 08-10-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.375	3/8	0.375	0.11	0.110	3700	5800	74200	74000	116300	116000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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.
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

To,
Project Manager
Maypole Lime Light Pvt Ltd
Project: Maypole Lime Light (Front Building)

Reference # CED/TFL **33977** (Dr. Safeer Abbas) Dated: 08-10-2019
Reference of the request letter # MLL-12 Dated: 08-10-2019

Tension Test Report (Page -1/1)

Date of Test 08-10-2019
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	0.376	0.11	0.111	3500	5200	70200	69610	104200	103500	1.20	15.0	
2	0.379	3	0.377	0.11	0.111	3500	5600	70200	69280	112300	110900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:
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

STRUCTURAL ENGINEERING DIVISION
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.
3- Sealed sample / Unsealed sample / Marked sample/Signed Samples