



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
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan
 Reference # CED/TFL **34188** (Dr. Usman Akmal) Dated: 15-11-2019
 Reference of the request letter # DB-78/DAR/RE/ME/2019/0207 Dated: 13-11-2019

Tension Test Report (Page – 1/1)

Date of Test 22-11-2019
 Gauge length 2 inches
 Description Steel Structure Steel Strip Tensile 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
1	MS I Beam	8"x4"	26.10x7.40	193.14	6700	10400	340.31	528.24	0.70	35.00	Ishtiaq Steel
2			26.10x7.40	193.14	6600	10300	335.23	523.16	0.70	35.00	
3	MS Angle	5"x5"x1/2"	24.10x13.20	318.12	10500	16500	323.79	508.82	0.80	40.00	Ishtiaq Steel
4			24.10x13.20	318.12	10300	16400	317.63	505.73	0.80	40.00	
5	MS Angle	3"x3"x1/4"	27.00x6.30	170.10	6600	9400	380.63	542.12	0.70	35.00	Ishtiaq Steel
6			29.00x6.35	184.15	7000	10300	372.90	548.70	0.70	35.00	
7	Structural Pipe	6"x4"x5mm	24.10x4.95	119.30	4800	5600	394.72	460.51	0.70	35.00	Bashir Pipe
8			24.10x4.95	119.30	4800	5700	394.72	468.73	0.80	40.00	
9	Structural Pipe	1"x2"x3mm	24.00x2.95	70.80	2400	3800	332.54	526.53	0.60	30.00	Bashir Pipe
10			24.00x2.95	70.80	2500	3700	346.40	512.67	0.60	30.00	
11	Structural Pipe	1"x2"x3mm	26.00x2.90	75.40	2900	3900	377.31	507.41	0.60	30.00	Bashir Pipe
12			26.00x2.90	75.40	3000	3900	390.32	507.41	0.60	30.00	
13	MS Plate	10mm	17.40x10.00	174.00	5000	8600	281.90	484.86	0.80	40.00	NI Traders
14			17.40x10.00	174.00	5100	8650	287.53	487.68	0.80	40.00	
Only Fourteen Samples for Tensile Test											
Bend Test											

I/C Testing Laboratories
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Note:

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Ref: CED/TFL/11/34197

Dated: 18-11-19

Dated of Test: 22-11-19

To
M/S Ibrahim Nizami Steel Wire Ind. (Pvt) Lytd
16/17 km, Sheikhpura Road, Missan Sua, Lahore

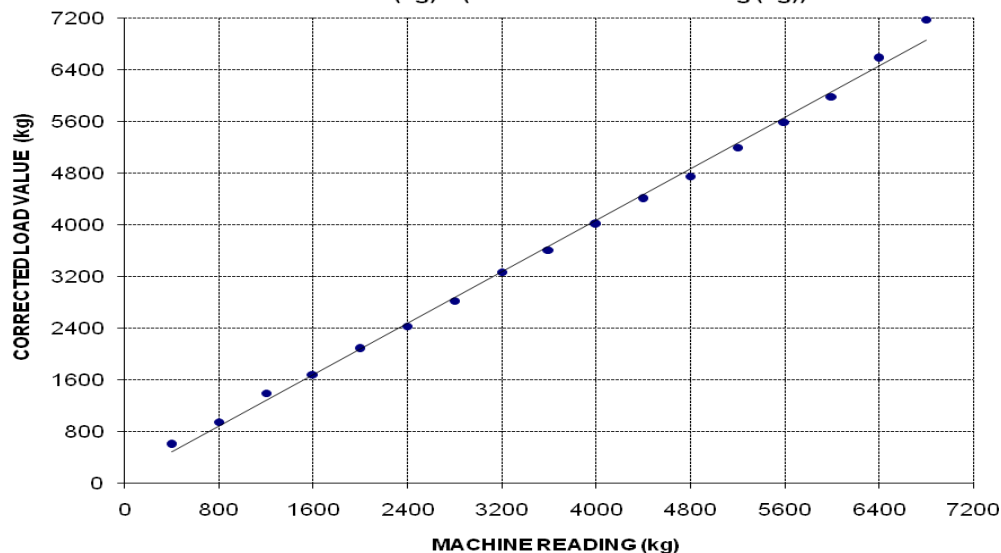
Subject:- CALIBRATION OF UNIVERSAL TESTING MACHINE OF 8000 kg
(MARK: CED/TFL/11/34197) (Page # 1/5)

Reference to your letter No. INSW/UET202/2019, dated: 18/11/2019 on the subject cited above. One Universal Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 8000 (kg)
Calibrated Rang : Zero - 6400 (kg)

Machine Reading (kg)	400	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800	5200	5600	6000	6200	6400
Corrected Load Value (kg)	595	941	1386	1682	2077	2422	2818	3263	3609	4004	4399	4745	5190	5586	5981	6576	7171

CALIBRATION CURVE FOR UNIVERSAL TESTING MACHINE (0 - 8000 kg)
Calibrated Value (kg) = (0.995 x Machine Reading (kg)) + 89.23



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Dated: 18-11-19

Dated of Test: 22-11-19

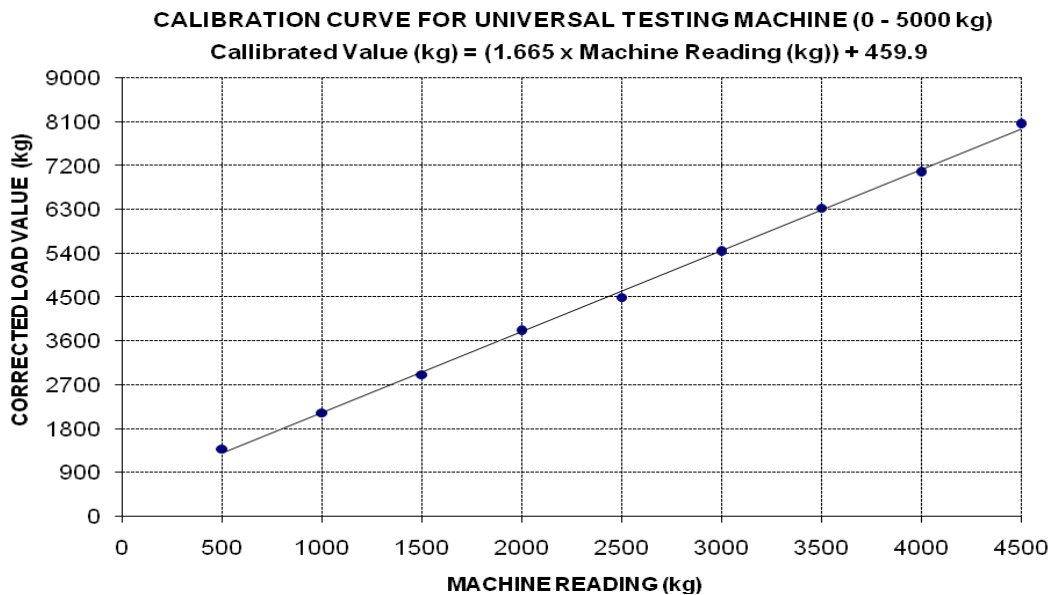
To
M/S Ibrahim Nizami Steel Wire Ind. (Pvt) Lytd
16/17 km, Sheikhpura Road, Missan Sua, Lahore

Subject:- CALIBRATION OF UNIVERSAL TESTING MACHINE OF 50000 kg
(Scale 0-5000 kg) (MARK: CED/TFL/11/34197) (Page # 2/5)

Reference to your letter No. INSW/UET202/2019, dated: 18/11/2019 on the subject cited above. One Universal Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 5000 (kg)
Calibrated Rang : Zero - 4500 (kg)

Machine Reading (kg)	500	1000	1500	2000	2500	3000	3500	4000	4500
Corrected Load Value (kg)	1384	2126	2916	3806	4498	5437	6327	7069	8057



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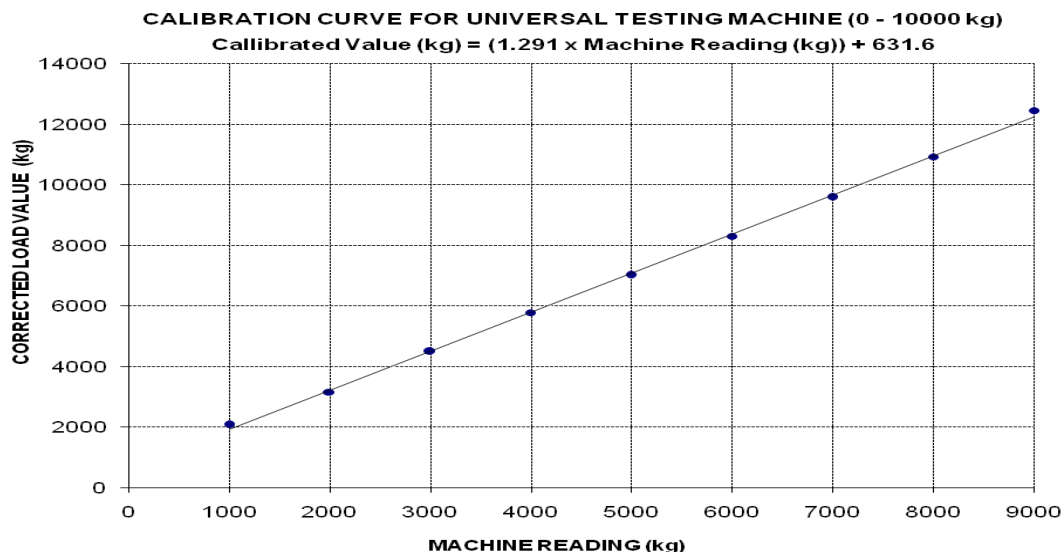
To
M/S Ibrahim Nizami Steel Wire Ind. (Pvt) Lytd
16/17 km, Sheikhpura Road, Missan Sua, Lahore

Subject:- CALIBRATION OF UNIVERSAL TESTING MACHINE OF 50000 kg
(Scale 0-10000 kg) (MARK: CED/TFL/11/34197) (Page # 3/5)

Reference to your letter No. INSW/UET202/2019, dated: 18/11/2019 on the subject cited above. One Universal Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 10000 (kg)
Calibrated Rang : Zero - 9000 (kg)

Machine Reading (kg)	1000	2000	3000	4000	5000	6000	7000	9000	9000
Corrected Load Value (kg)	2076	3164	4498	5783	7019	8304	9590	10924	12457



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Dated: 18-11-19

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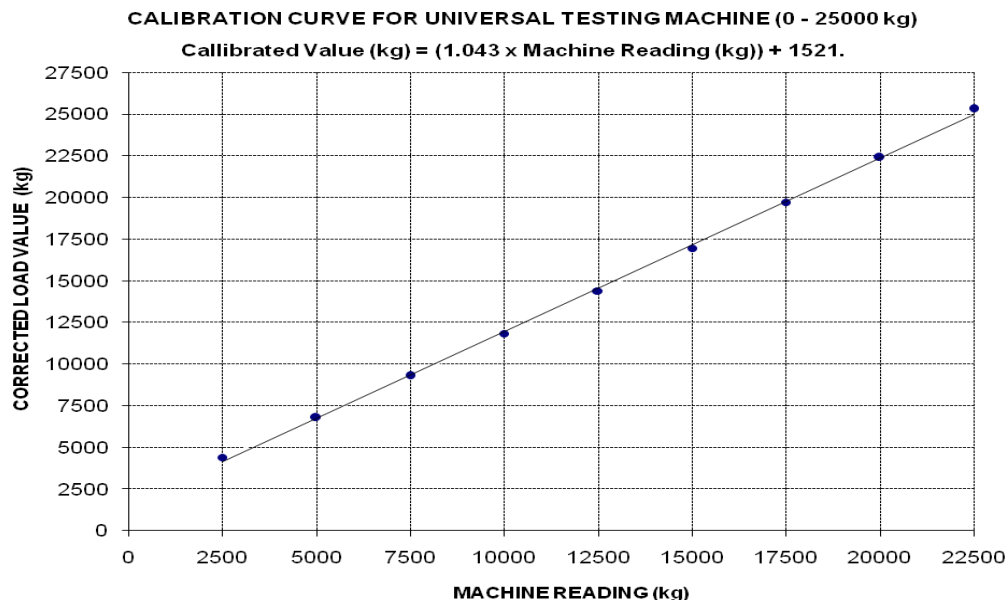
Subject:- CALIBRATION OF UNIVERSAL TESTING MACHINE OF 50000 kg
(Scale 0-5000 kg) (MARK: CED/TFL/11/34197) (Page # 4/5)

Reference to your letter No. INSW/UET202/2019, dated: 18/11/2019 on the subject cited above. One Universal Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 25000 (kg)

Calibrated Rang : Zero - 22500 (kg)

Machine Reading (kg)	2500	5000	7500	10000	12500	15000	17500	20000	22500
Corrected Load Value (kg)	4399	6772	9293	11814	14385	16955	19723	22392	25298



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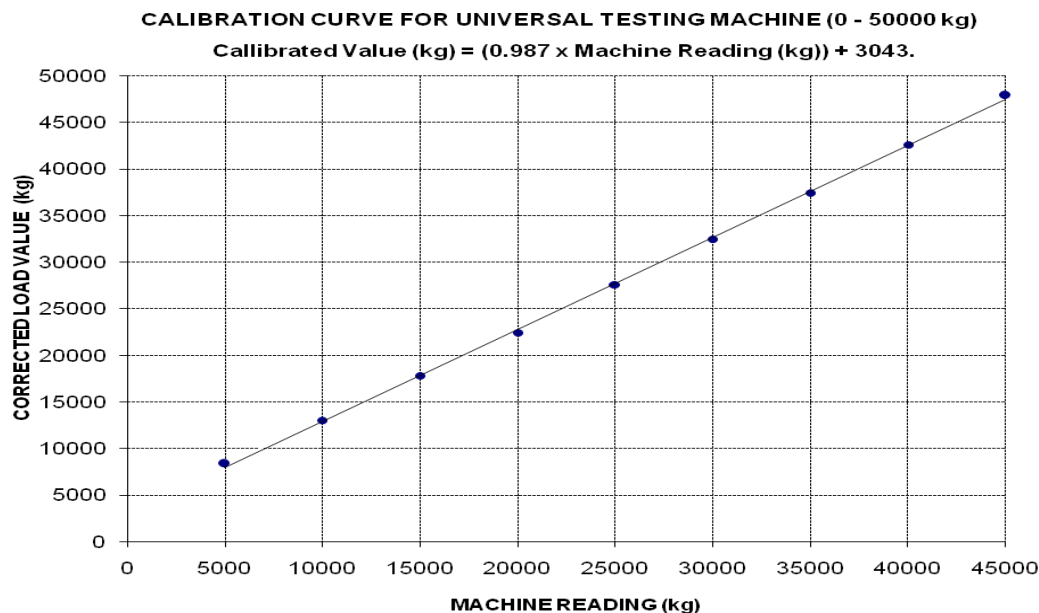
Subject:- CALIBRATION OF UNIVERSAL TESTING MACHINE OF 50000 kg
(Scale 0-50000 kg) (MARK: CED/TFL/11/34197) (Page # 5/5)

Reference to your letter No. INSW/UET202/2019, dated: 18/11/2019 on the subject cited above. One Universal Testing Machine has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 50000 (kg)

Calibrated Rang : Zero - 45000 (kg)

Machine Reading (kg)	5000	10000	15000	20000	25000	30000	35000	40000	45000
Corrected Load Value (kg)	8354	13000	17795	22442	27579	32440	37460	42570	47893



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To,
 Senior Resident Engineer
 ProMag Pvt Ltrd
 Civil Infrastructure Works Main Trunk Sewer Package II DHA Multan
 (Amjad Steel)

Reference # CED/TFL **34207** (Dr. Qasim Khan)
 Reference of the request letter # Sec-D/MTS/374

Dated: 21-11-2019
 Dated: 16-11-2019

Tension Test Report (Page -2/2)/1

Date of Test 22-11-2019
 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	0.130	5	5.61	-----	0.038	800	2000	-----	46030	-----	115100	1.10	13.8	
2	0.137	5	5.76	-----	0.040	1000	1380	-----	54640	-----	75400	1.70	21.3	
-	0.137	6	5.75	-----	0.040	1100	1600	-----	60300	-----	87800	1.40	17.5	
-	0.139	6	5.79	-----	0.041	1200	1840	-----	64820	-----	99400	1.30	16.3	
-	0.249	8	7.75	-----	0.073	2000	2680	-----	60340	-----	80900	1.60	20.0	
-	0.251	8	7.79	-----	0.074	2120	2840	-----	63320	-----	84900	1.60	20.0	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
5mm Dia Bar Bend Test Through 180° is Satisfactory														
6mm Dia Bar Bend Test Through 180° is Satisfactory														
8mm Dia Bar Bend Test Through 180° is Satisfactory														

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