



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

To,  
 CE (HVDC) NTDC,  
 Lahore

Reference # CED/TFL **33754** (Dr. Asad Ali)

Dated: 29-08-2019

Reference of the request letter # 6830-33/CE/HVDC/NTDC/LHR Dated: 29-08-2019

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

Date of Test

04-09-2019

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 <sup>2</sup> )		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	0.391	3	0.382	0.11	0.115	3600	5200	72200	69090	104200	99800	1.20	15.0	
2	0.383	3	0.378	0.11	0.112	3400	5100	68200	66620	102200	100000	1.20	15.0	
3	0.381	3	0.377	0.11	0.112	3500	5100	70200	68960	102200	100500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and three samples for bend test</b>														
<b>Bend Test</b>														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by M Umair Aslam (DM HVDC), M Abbas (RE EO) & Ali Adnan (CET Lot 7 & 8)

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

Note:

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To,  
 Project Manager  
 State Grid  
 China Electric Power Equipment and Technology Co., Ltd  
 +660kV Matiari-Lahore HVDC Transmission Line (Lot-7 Pakpattan)  
 Reference # CED/TFL **33755** (Dr. Asad Ali) Dated: 29-08-2019  
 Reference of the request letter # CET/HVDC/SPO-04L7P/S.J. Steel/UET-19-736 Dated: 27-08-2019

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

Date of Test 04-09-2019  
 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 <sup>2</sup> )		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	0.371	3	0.373	0.11	0.109	3300	5000	66200	66620	100200	101000	1.10	13.8	
2	0.374	3	0.374	0.11	0.110	3400	5000	68200	68090	100200	100200	1.20	15.0	
3	0.394	3	0.384	0.11	0.116	2900	4200	58200	55210	84200	80000	1.60	20.0	
4	4.267	10	1.264	1.27	1.254	35200	52200	61100	61860	90600	91800	1.50	18.8	
5	4.256	10	1.262	1.27	1.251	35200	51600	61100	62030	89600	91000	1.50	18.8	
6	4.199	10	1.254	1.27	1.234	34600	53400	60100	61790	92700	95400	1.20	15.0	

**Note: only six samples for tensile and six samples for bend test**

Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by M Umair Aslam (DM HVDC), M Abbas (RE EO) & Ali Adnan (CET Lot 7 & 8)

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Department of Civil Engineering**  
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**Pakistan. Ph: 92-42-99029202**

To,  
 Project Coordinator  
 China CAMC Engineering Co., Ltd  
 CAMCE Pakistan branch office  
 Mangla Package IX Switchyard GMHD-09

Reference # CED/TFL **33770** (Dr. Asif Hameed)  
 Reference of the request letter # CAMCE/CHB/002

Dated: 02-09-2019  
 Dated: 02-09-2019

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

Date of Test 04-09-2019  
 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 <sup>2</sup> )		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	0.387	3	0.381	0.11	0.114	3300	5400	66200	63890	108200	104600	1.00	12.5	
2	0.386	3	0.380	0.11	0.113	3400	5350	68200	66040	107200	104000	1.00	12.5	
3	0.383	3	0.379	0.11	0.113	3400	5350	68200	66500	107200	104700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and two samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Muhammad Sohail(QC Engr. CAMC)

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**UET Lahore, Pakistan.**

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To,  
 Chief Resident Engineer, Package-1  
 NESPAK  
 Construction/ Improvement & Rehabilitation of at Grade Works along Lahore Orange Line Metro Train Corridor  
 Construction of Steel Impact Gantries for Stations of Package-I

Reference # CED/TFL **33776** (Dr. Ali Ahmed)  
 Reference of the request letter # 4042/13/FAM/J-Bolt-094

Dated: 02-09-2019  
 Dated: 27-08-2018

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

Date of Test 04-09-2019  
 Gauge length 8 inches  
 Description J-Bolt Bar Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	6.351	32	32.10	-----	809.1	45000	59000	546	715	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>												
Bend Test												

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To,  
 Resident Engineer  
 PEPAC  
 Establishment of Workers Welfare Complex (Phase-I) Adjacent to Sundar Industrial Estate,  
 District Kasur (Package-A & B) (Ittefaq Steel)

Reference # CED/TFL **33781** (Dr. Waseem Abbas)  
 Reference of the request letter # RE/PEPAC/Sundar/AB-201

Dated: 03-09-2019  
 Dated: 02-09-2019

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

Date of Test 04-09-2019  
 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 <sup>2</sup> )		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	0.364	3	0.369	0.11	0.107	3200	5000	64200	65920	100200	103000	1.20	15.0	
2	0.361	3	0.368	0.11	0.106	3000	4900	60200	62340	98200	101900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Assistant Director Engg  
 Gujranwala Development Authority  
 Gujranwala  
 (Rehabilitation/ Construction of Road along Noorpur Distributry from G.T. Road to Medical College Gondlanwala Road, Gujranwala)  
 Reference # CED/TFL **33782** (Dr. Waseem Abbas) Dated: 03-09-2019  
 Reference of the request letter # GDA/ADE/68 Dated: 24-07-2019

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

Date of Test 04-09-2019  
 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 <sup>2</sup> )		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	0.368	3	0.371	0.11	0.108	3600	5000	72200	73410	100200	102000	1.00	12.5	
2	0.372	3	0.373	0.11	0.109	3500	4800	70200	70490	96200	96700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
<b>Bend Test</b>														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S Ghani Cermics Limited  
40-L Model Town, Lahore

Reference # CED/TFL **33784** (Dr. Waseem Abbas)  
Reference of the request letter # Nil

Dated: 03-09-2019  
Dated: 03-09-2019

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

Date of Test 04-09-2019  
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 <sup>2</sup> )		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	0.384	3	0.379	0.11	0.113	3200	5000	64200	62460	100200	97600	1.10	13.8	
2	0.398	3	0.386	0.11	0.117	3300	5400	66200	62150	108200	101700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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To,  
 Resident Engineer  
 NESPAK, Lahore  
 Fabrication & Installation of Pedestrian Bridge Across Lytton Road at Janazgah, Lahore

Reference # CED/TFL **33786, 837** (Dr. Waseem Abbas) Dated: 03-09-2019  
 Reference of the request letter # 3772/POB-BC/MSW/19/10A Dated: 05-07-2019

**Tension Test Report** (Page – 1/8)

Date of Test 04-09-2019  
 Gauge length 2 inches  
 Description Steel Structure Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	I-Beam	450x175x17x21	27.10x13.40	363.14	12500	19700	337.68	532.18	0.60	30.00	
2		450x175x17x21	27.10x13.40	363.14	12000	19900	324.17	537.59	0.70	35.00	
3	I-Beam	150x75x6x8	27.00x5.60	151.20	5300	8100	343.87	525.54	0.70	35.00	
4		150x75x6x8	27.00x5.60	151.20	5500	8100	356.85	525.54	0.70	35.00	
5	I-Beam	350x150x13x7	27.00x13.10	353.70	11000	18800	305.09	521.42	0.80	40.00	
6		350x150x13x7	27.00x13.10	353.70	11300	18800	313.41	521.42	0.70	35.00	
7	Angle Iron	63x63x6	28.40x6.00	170.40	6500	9500	374.21	546.92	0.45	22.50	
8		63x63x6	28.40x6.00	170.40	6100	9400	351.18	541.16	0.45	22.50	
9	Angle Iron	50x50x6	18.20x6.40	116.48	4200	5900	353.73	496.90	0.55	27.50	
10		50x50x6	18.20x6.40	116.48	4200	6000	353.73	505.32	0.60	30.00	
<b>Only Ten Samples for Tensile Test</b>											
<b>Bend Test</b>											

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**UET Lahore, Pakistan.**

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To,  
 Resident Engineer  
 NESPAK, Lahore  
 Fabrication & Installation of Pedestrian Bridge Across Lytton Road at Janazgah, Lahore

Reference # CED/TFL **33786, 837** (Dr. Waseem Abbas) Dated: 03-09-2019  
 Reference of the request letter # 3772/POB-BC/MSW/19/10A Dated: 05-07-2019

**Tension Test Report** (Page – 2/8)

Date of Test 04-09-2019  
 Gauge length 2 inches  
 Description Steel Structure Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	M.S Tube	75x75x5	26.00x5.20	135.20	4900	6400	355.54	464.38	0.45	22.50	
2		75x75x5	26.00x5.20	135.20	4600	6000	333.77	435.36	0.45	22.50	
3	M.S Tube	40x40x3	12.40x3.00	37.20	960	1960	253.16	516.87	0.50	25.00	
4		40x40x3	13.10x3.00	39.30	1160	2000	289.56	499.24	0.45	22.50	
5	M.S Plate	76x458x14	18.70x14.00	261.80	8400	12700	314.76	475.89	0.70	35.00	
6		76x458x14	18.70x14.00	261.80	8400	12800	314.76	479.63	0.80	40.00	
7	M.S Pipe	50x1.5	16.80x1.60	26.88	800	1120	291.96	408.75	0.80	40.00	
8		50x1.5	16.80x1.60	26.88	760	1200	277.37	437.95	0.80	40.00	
9	M.S Plate	76x458x10	18.70x10.00	187.00	5100	8100	267.55	424.93	0.90	45.00	
10		76x458x10	18.70x10.00	187.00	5300	8300	278.04	435.42	0.80	40.00	
<b>Only Ten Samples for Tensile Test</b>											
<b>Bend Test</b>											

**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  
 NESPAK, Lahore  
 Fabrication & Installation of Pedestrian Bridge Across Lytton Road at Janazgah, Lahore

Reference # CED/TFL **33786, 837** (Dr. Waseem Abbas) Dated: 03-09-2019  
 Reference of the request letter # 3772/POB-BC/MSW/19/10A Dated: 05-07-2019

**Tension Test Report** (Page – 3/8)

Date of Test 04-09-2019  
 Gauge length 2 inches  
 Description Steel Structure Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks	
											(mm)
1	M.S Pipe	25x1.6	14.30x1.20	17.16	600	720	343.01	411.61	0.50	25.00	
2		25x1.6	14.30x1.20	17.16	560	720	320.14	411.61	0.50	25.00	
3	Chequer Plate	6	18.70x5.90	110.33	3700	4800	328.99	426.79	0.70	35.00	
4		6	18.70x5.90	110.33	3600	4800	320.09	426.79	0.70	35.00	
5	Channel	250x88x8x10	29.60x8.40	248.64	8800	13600	347.20	536.58	0.65	32.50	
6		250x88x8x10	29.60x8.40	248.64	8600	13700	339.31	540.53	0.70	35.00	
7	Ellipes	110x65x5	24.80x5.30	131.44	4200	5400	313.47	403.03	0.50	25.00	
8		110x65x5	25.80x5.30	136.74	3700	5900	265.45	423.28	0.50	25.00	
9	Sq. Pipe	100x100x3	21.70x3.20	69.44	2500	3200	353.18	452.07	0.50	25.00	
10		100x100x3	21.70x3.20	69.44	2300	2900	324.93	409.69	0.50	25.00	
<b>Only Ten Samples for Tensile Test</b>											
<b>Bend Test</b>											

**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  
NESPAK, Lahore  
Fabrication & Installation of Pedestrian Bridge Across Lytton Road at Janazgah, Lahore

Reference # CED/TFL **33786, 837** (Dr. Waseem Abbas)  
Reference of the request letter # 3772/POB-BC/MSW/19/10A

Dated: 03-09-2019  
Dated: 05-07-2019

**Weight & Size Test Report** (Page – 4/8)

Date of Test 04-09-2019  
Gauge length -----  
Description I-Beam & Channel Weight and Size Test

Sr. No.	Designation		Weight (g)	Length (cm)	Weight per Unit Length (kg/m)	Depth (d) mm	Flange Width (b <sub>f</sub> ) mm	Flange Thickness (t <sub>f</sub> ) mm	Web Thickness (t <sub>w</sub> ) mm	Remark
	(mm)									
1	I Beam	450x175x17x21	54000	45.70	118.16	460.00	175.10	22.00	14.00	
2	I Beam	150x75x6x8	7786	40.60	19.18	150.10	76.00	9.00	5.80	
3	I Beam	350x150x13x7	36299	45.70	79.43	354.00	150.40	19.30	13.00	
4	Channel	250x88x8x10	16906	45.45	37.20	250.00	88.10	12.50	9.80	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Test</b>										

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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Dated: 03-09-2019  
Dated: 05-07-2019

**Weight & Size Test Report** (Page – 5/8)

Date of Test 04-09-2019  
Gauge length -----  
Description Angle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(mm)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	63x63x6	2961	43.2	6.85	63.10	63.00	6.00	
2	50x50x6	2787	45.50	6.13	50.20	50.40	6.20	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Two Samples for Test</b>								

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Dated: 03-09-2019  
Dated: 05-07-2019

**Weight & Size Test Report** (Page – 6/8)

Date of Test 04-09-2019  
Gauge length -----  
Description M.S Tube, Ellipse & Sq. Pipe Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Outer Dimension		Thickness	Remark
						X	Y		
	(mm)		(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	M.S Tube	75x75x5	5428	45.75	11.86	75.70	75.40	5.10	
2	M.S Tube	40x40x3	1991	45.40	4.39	39.70	39.75	3.20	
3	Ellipes	110x65x5	4948	43.6	11.35	106.70	66.80	5.20	
4	Sq. Pipe	100x100x3	4906	40.8	12.02	100.20	101.00	3.10	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Test</b>									

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Dated: 03-09-2019  
Dated: 05-07-2019

**Weight & Size Test Report** (Page – 7/8)

Date of Test 04-09-2019  
Gauge length -----  
Description M.S Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Thickness	Remark
	(mm)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	50x1.5	878	34.65	2.53	48.60	45.40	1.60	
2	25x1.6	571	46.00	1.24	25.40	22.50	1.45	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Two Samples for Test</b>								

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Dated: 03-09-2019  
Dated: 05-07-2019

**Weight & Size Test Report** (Page – 8/8)

Date of Test 04-09-2019  
Gauge length -----  
Description Plate Weight and Size Test

Sr. No.	Designation		Weight	Length	Width	Weight per Unit Area	Thickness	Remark
	(mm)							
1	M.S Plate	76x458x14	4043	45.75	7.50	117.83	14.00	
2	M.S Plate	76x458x10	2985	46.20	7.60	85.01	10.10	
3	Chequer Plate	6	1804	45.5	7.60	52.17	6.10	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Three Samples for Test</b>								

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