



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
 Construction of Entrance Gate, Security Road, Boundary wall and Watch Tower of Lahore
 Knowledge Park

Reference # CED/TFL **32489** (Dr. Waseem Abbas)
 Reference of the request letter # 3957/13/MS/10/154

Dated: 23-01-2019
 Dated: 23-01-2019

Tension Test Report (Page – 1/4)

Date of Test 29-01-2019
 Gauge length 2 inches
 Description M.S Sheet 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
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	3	25.00x2.80	70.00	2500	3500	350.36	490.50	0.60	30.00	
2	5	25.10x4.90	122.99	4000	5900	319.05	470.60	0.70	35.00	
3	6	25.00x5.85	146.25	5100	7100	342.09	476.25	0.75	37.50	
4	11	25.00x10.80	270.00	14400	17100	523.20	621.30	0.60	30.00	
5	17	25.30x17.30	437.69	21600	25100	484.12	562.57	0.85	42.50	
Only Five Samples for Tensile and Five Samples for Bend Test										
Bend Test										
Strip Taken from MS Sheet 3mm Bend Test Through 180° is Satisfactory										
Strip Taken from MS Sheet 5mm Bend Test Through 180° is Satisfactory										
Strip Taken from MS Sheet 6mm Bend Test Through 180° is Satisfactory										
Strip Taken from MS Sheet 11mm Bend Test Through 180° is Satisfactory										
Strip Taken from MS Sheet 16mm Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
Resident Engineer
NESPAK
Construction of Entrance Gate, Security Road, Boundary wall and Watch Tower of Lahore
Knowledge Park

Reference # CED/TFL **32489** (Dr. Waseem Abbas)
Reference of the request letter # 3957/13/MS/10/154

Dated: 23-01-2019
Dated: 23-01-2019

Size Test Report (Page – 2/2)
Date of Test 29-01-2019
Gauge length -----
Description M.S Sheet Size Test

Sr. No.	Designation	Thickness	Remark
	(mm)	(mm)	
1	3	2.80	
2	5	4.90	
3	6	5.90	
4	11	10.80	
5	17	17.10	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only Five Samples for Test			

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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
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To,
 Director
 NESCO Associates
 Honda 3S, Alongside Ring Road, Gajju Matta, Lahore
 (Ittefaq Steel)

Reference # CED/TFL **32509** (Dr. Irfan Ul Hussan)
 Reference of the request letter # Nil

Dated: 28-01-2019
 Dated: 28-01-2019

Tension Test Report (Page -1/1)

Date of Test 29-01-2019
 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 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	0.358	3	0.366	0.11	0.105	3200	4900	64200	67100	98200	102800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Resident Engineer
 NESPAK
 Dualization & Improvement of Old Bannu Road/ Domail – Khurrum Road (Project (P – 01)(Mughal Steel)

Reference # CED/TFL **32510** (Dr. Rizwan Azam) Dated: 28-01-2019
 Reference of the request letter # 3968/OBR/P-01/RE/KU/140 – A Dated: 25-01-2019

Tension Test Report (Page -1/1)

Date of Test 29-01-2019
 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	4.076	32	31.37	1.27	1.198	43000	56000	74700	79100	97200	103100	1.50	18.8	
2	4.099	32	31.46	1.27	1.205	41200	54800	71500	75370	95200	100300	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Fence Fixing Along Barki Road Hydiara, DHA Ph-VII)(M/s Sultan & Coy)

Reference # CED/TFL **32511** (Dr. Rizwan Azam)
Reference of the request letter # 408/241/E/Lab/429/26

Dated: 28-01-2019
Dated: 25-01-2019

Tension Test Report (Page -1/1)

Date of Test 29-01-2019
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 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	0.374	3	0.374	0.11	0.110	2600	4000	52100	52190	80200	80300	1.70	21.3	Saeed Kasur
2	0.374	3	0.374	0.11	0.110	2700	4000	54100	54140	80200	80300	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue Project, 17-A Cooper Road Lahore

Reference # CED/TFL **32512** (Dr. Irfan Ul Hussan)
 Reference of the request letter # CONC-20190128

Dated: 28-01-2019
 Dated: 28-01-2019

Tension Test Report (Page -1/1)

Date of Test 29-01-2019
 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 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	3.786	10	1.190	1.27	1.113	28400	45800	49300	56250	79500	90800	0.80	10.0	Prime Steel
2	3.690	10	1.175	1.27	1.085	26200	41200	45500	53240	71500	83800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
M/S Ittefaq Building Solutions Pvt Ltd
Lahore
(Poultry House Complex of Ghani Group at Faisalabad)

Reference # CED/TFL **32513** (Dr. Irfan ul Hussan)
Reference of the request letter # IBS/GPH/ST01

Dated: 28-01-2019
Dated: 28-01-2019

Tension Test Report (Page -1/1)

Date of Test 29-01-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test

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	3/8	0.395	0.11	0.122	4700	6400	94200	84670	128300	115300	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.

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Test Floor Laboratory
Department of Civil Engineering
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To,
M/S Sui Northern Gas Pipelines Limited
Lahore
(Construction of Pump Room and Installation of Fire Fighting System at Regional Meter Shop
Kot Lakhpat Lahore)

Reference # CED/TFL **32514** (Dr. Irfan ul Hussan)
Reference of the request letter # CC/61/F.F/Met

Dated: 28-01-2019
Dated: 28-01-2019

Tension Test Report (Page -1/1)

Date of Test 29-01-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	3/8	0.374	0.11	0.110	3100	5100	62200	62250	102200	102500	1.40	17.5	
2	0.367	3/8	0.371	0.11	0.108	3000	4900	60200	61330	98200	100200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 Demolition and Reconstruction of Railway Station at Nankana Sahib
 (Mughal Supreme)

Reference # CED/TFL **32515** (Dr. Irfan Ul Hussan)
 Reference of the request letter # 3797/103/MA/04/13

Dated: 28-01-2019
 Dated: 28-01-2019

Tension Test Report (Page -1/1)

Date of Test 29-01-2019
 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 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	0.378	3	0.376	0.11	0.111	4500	5300	90200	89160	106200	105000	0.90	11.3	
2	0.378	3	0.376	0.11	0.111	4300	5400	86200	85350	108200	107200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by M Yaseen (Inspector NESPAK)

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
 AZ Engineering Associates, Sialkot Residency
 Redecking of Tattley Bridge in District Narowal

Reference # CED/TFL **32516** (Dr. Irfan Ul Hussan)
 Reference of the request letter # RE/SKT-160

Dated: 28-01-2019
 Dated: 17-01-2019

Tension Test Report (Page -1/1)

Date of Test 29-01-2019
 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 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	0.357	3	0.365	0.11	0.105	3200	4500	64200	67250	90200	94600	1.20	15.0	Kamran 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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Test Floor Laboratory
Department of Civil Engineering
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To,
 M/S Defence Housing Authority.
 Lahore Cantt
 (Infra Dev Works of Ph- IX (Pkg-III & IV) DHA Lahore)(M/s NLC)

Reference # CED/TFL **32517** (Dr. Rizwan Azam)
 Reference of the request letter # 408/241/E/Lab/412/900

Dated: 28-01-2019
 Dated: 23-01-2019

Tension Test Report (Page -1/1)

Date of Test 29-01-2019
 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 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	0.368	3	0.371	0.11	0.108	3100	4900	62200	63180	98200	99900	1.20	15.0	SJ Steel
2	0.374	3	0.374	0.11	0.110	3200	5000	64200	64150	100200	100300	1.20	15.0	
3	4.282	10	1.266	1.27	1.259	42800	59000	74300	74950	102400	103400	1.40	17.5	
4	4.289	10	1.267	1.27	1.261	43200	59200	75000	75540	102800	103600	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 I/C QA&QC
 PCL Project, Descon Engineering Ltd
 7700 TPD-Pioneer Cement Project (CP10055)(Mughal Steel)

Reference # CED/TFL **32518** (Dr. Rizwan Azam)
 Reference of the request letter # Nil

Dated: 28-01-2019
 Dated: 28-01-2019

Tension Test Report (Page -1/1)

Date of Test 29-01-2019
 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	0.416	10	10.02	0.11	0.122	4100	5500	82200	73950	110200	99200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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