



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

To,
 ARE – ADP Projects
 NESPAK
 Punjab Irrigation Department – Works Under Public Sector Development Program (PSDP)
 Construction of J-Head Spur at RD 25+000 Maggasson Branch D/S Left Taunsa Barrage
 (Package-B)
 Reference # CED/TFL **35073** (Dr. Qasim Khan) Dated: 02-07-2020
 Reference of the request letter # 3158/13/CAA/09/1443 Dated: 11-06-2020

Tension Test Report (Page – 1/2)

Date of Test 06-07-2020
 Gauge length 8 inches
 Description G.I Wire Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm ²)		Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Kg/m)	Nominal (SWG)	Actual (mm)	Nominal	Actual	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	0.105	8	4.13	-----	13.4	-----	480	-----	351	1.10	13.8	
2	0.105	8	4.13	-----	13.4	-----	520	-----	380	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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Punjab Irrigation Department – Works Under Public Sector Development Program (PSDP)
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(Package-B)
Reference # CED/TFL **35073** (Dr. Qasim Khan) Dated: 02-07-2020
Reference of the request letter # 3158/13/CAA/09/1443 Dated: 11-06-2020

Size Test Report (Page – 2/2)
Date of Test 06-07-2020
Gauge length -----
Description G.I Wire Thickness Test

Sr. No.	Nominal Diameter	Measured Diameter	Remark
	(SWG)	(mm)	
1	8	4.00	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only One Sample for Test			

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To,
 ARE – ADP Projects
 NESPAK
 Punjab Irrigation Department – Works Under Public Sector Development Program (PSDP)
 Construction of J-Head Spur at RD 20+000 Guid Head Spur at RD 25+000 Maggasson Branch
 D/S Left Taunsa Barrage (Package-B)
 Reference # CED/TFL **35074** (Dr. Qasim Khan) Dated: 02-07-2020
 Reference of the request letter # 3158/13/CAA/09/1442 Dated: 11-06-2020

Tension Test Report (Page – 1/2)

Date of Test 06-07-2020
 Gauge length 8 inches
 Description G.I Wire Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm ²)		Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Kg/m)	Nominal (SWG)	Actual (mm)	Nominal	Actual	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	0.106	8	4.15	-----	13.5	-----	520	-----	378	1.10	13.8	
2	0.106	8	4.15	-----	13.5	-----	560	-----	407	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
ARE – ADP Projects
NESPAK
Punjab Irrigation Department – Works Under Public Sector Development Program (PSDP)
Construction of J-Head Spur at RD 20+000 Guid Head Spur at RD 25+000 Maggasson Branch
D/S Left Taunsa Barrage (Package-B)
Reference # CED/TFL **35074** (Dr. Qasim Khan) Dated: 02-07-2020
Reference of the request letter # 3158/13/CAA/09/1442 Dated: 11-06-2020

Size Test Report (Page – 2/2)
Date of Test 06-07-2020
Gauge length -----
Description G.I Wire Thickness Test

Sr. No.	Nominal Diameter	Measured Diameter	Remark
	(SWG)	(mm)	
1	8	4.00	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only One Sample for Test			

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UET Lahore, Pakistan.

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To,
M/S Miraj Din & Sons Foging Works
Lahore

Reference # CED/TFL **35076** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 02-07-2020
Dated: 02-07-2020

Load Test Report (Page -1/1)

Date of Test 06-07-2020
Description Safety Hook Load Test

Sr. No.	Designation	Maximum Observed Load	Remarks
		(kg)	
1	Safety Hook	3100	Safety hook was permanently deformed (de-shaped)
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Note: only one sample for test

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To,
 Project Engineer (Civil)
 Shahid Builders (Pvt) Ltd
 Construction of 36 E-Type Flat (T/S) at Pmad Colony Nazimabad Lahore

Reference # CED/TFL **35083** (Dr. M Rizwan Riaz)
 Reference of the request letter # SBL/2020/1037

Dated: 03-07-2020
 Dated: 02-07-2020

Tension Test Report (Page -1/2)

Date of Test 06-07-2020
 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 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	0.371	3/8	0.372	0.11	0.109	3200	4700	64200	64740	94200	95100	1.40	17.5	
2	0.368	3/8	0.371	0.11	0.108	3200	4800	64200	65230	96200	97900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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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To,
 Project Engineer (Civil)
 Shahid Builders (Pvt) Ltd
 Construction of Burger King Building at 254-G, Phase-5 DHA, Lahore

Reference # CED/TFL **35083** (Dr. M Rizwan Riaz)
 Reference of the request letter # SBL/2020/1038

Dated: 03-07-2020
 Dated: 02-07-2020

Tension Test Report (Page -2/2)

Date of Test 06-07-2020
 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 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	0.385	3/8	0.379	0.11	0.113	3400	4800	68200	66280	96200	93600	1.40	17.5	
2	0.410	3/8	0.392	0.11	0.120	3500	5100	70200	64070	102200	93400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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To,
M/S CM Engineering (Pvt) Ltd
Lahore
(CMPAK Project Site ID: 52587, 52618, 52620, 52631, 52651, 62659, 52685, 52684, 52523,
52519, 52689, 52693, 52704, 52705, 52728, 52731, 52737, 52747, 52754, 51171, 52617, 52563,
52039, 52616)
Reference # CED/TFL **35084** (Dr. Qasim Khan) Dated: 03-07-2020
Reference of the request letter # CME/Steel/CMPAK/334 Dated: 12-06-2020

Tension Test Report (Page -1/1)

Date of Test 06-07-2020
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	0.397	10	9.79	0.12	0.117	3300	5100	60627	62380	93696	96500	1.10	13.8	
2	0.397	10	9.79	0.12	0.117	3400	5200	62464	64180	95533	98200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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