

Resident Engineer/Team Leader
 Prime Engineering Consultancy, Kallurkot Bidge Project

Test Performed By: Dr. /Engr. S. Asad Ali Gillani

Client Reference: KK-DIK-BR-PJ/2020/181

Dated: 20-08-2020

SOM Lab Ref: CED/SOM/2862(Page-1/1)

Dated: 21-08-2020

Test: Tension Test & bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Pak Steel)

Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.449	20	19.93	314	312	156.20	210.20	497	501	669	674	30.0	200	15.0	
2	1.592	16	16.07	201	203	104.20	138.20	518	514	687	682	25.0	200	12.5	
3	0.911	12	12.15	113	116	60.50	79.50	535	522	703	686	22.5	200	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
12mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Syed Muhammad Adil

Test Performed By:

Dr. /Engr.

M Irfan Hu
Hassan

Acting Resident Engineer, M/s Zeeruk International (Pvt) Ltd. PKM Project, Rajana Camp

Client Reference: 1121/CRE/ZRK/PKM

Dated: 18-08-2020

SOM Lab Ref: 2865(Page-1/1)

Dated: 21-08-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar(Faizan Steel)

Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.435	20	19.87	314	310	175.00	210.00	557	565	668	678	27.5	200	13.8	
2	2.438	20	19.88	314	311	178.00	214.00	567	574	681	690	25.0	200	12.5	
3	1.539	16	15.80	201	196	100.50	123.70	500	513	615	631	25.0	200	12.5	
4	1.586	16	16.04	201	202	106.00	131.20	527	525	653	650	25.0	200	12.5	
5	0.864	12	11.84	113	110	55.00	67.20	486	500	594	611	27.5	200	13.8	
6	0.869	12	11.87	113	111	55.50	67.50	491	502	597	611	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Agha Hassan Ali
SQNI DR GE (AIR) Rafiqui

Test Performed By: Dr. /Engr. S. Asad Ali Gillani

Client Reference: 6369/24/E-6

SOM Lab 2863 (Page-

Ref: 1/1)

Dated: 18-08-2020

Dated: 21-08-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Guage Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.480	6	0.744	0.44	0.435	12.92	20.23	64740	65480	101420	102590	0.90	8.0	11.3	
2	1.484	6	0.745	0.44	0.436	13.00	20.00	65150	65750	100250	101170	1.00	8.0	12.5	
3	1.127	5	0.649	0.31	0.331	10.83	15.80	77020	72130	112410	105280	0.80	8.0	10.0	
4	1.127	5	0.649	0.31	0.331	9.19	13.61	65420	61270	96820	90680	1.00	8.0	12.5	
5	0.645	4	0.492	0.20	0.190	5.76	8.97	63510	66860	98920	104130	0.80	8.0	10.0	
6	0.648	4	0.492	0.20	0.190	5.76	9.07	63510	66860	100050	105310	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 5	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr. Tariq Hassan

Test Performed By:

Dr. /Engr.

M. Irfan Ul Hassan

Deputy Director (Works) for Mines Labour Welfare Commissioner Punjab, Lahore

Client Reference: MLW/C.E/MT/50/17/6181

SOM Lab

Ref: 2866(Page-1/3)

Dated: 20-08-2020

Dated: 21-08-2020

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.661	4	0.497	0.20	0.194	5.50	8.66	60700	62580	95550	98500	1.20	8.0	15.0	
2	0.686	4	0.507	0.20	0.202	5.40	8.66	59580	58990	95550	94600	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr. Tariq Hassan

Test Performed By:

Dr. /Engr.

M. Irfan Ul Hassan

Deputy Director (Works) for Mines Labour Welfare Commissioner Punjab, Lahore

Client Reference: MLW/C.E/MT/50/17/6183

SOM Lab

Ref: 2866(Page-2/3)

Dated: 20-08-2020

Dated: 21-08-2020

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.660	4	0.497	0.20	0.194	5.61	8.66	61830	63740	95550	98500	1.10	8.0	13.8	
2	0.663	4	0.498	0.20	0.195	5.81	8.94	64080	65720	98580	101110	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr. Tariq Hassan

Test Performed By:

Dr. /Engr.

M. Irfan Ul Hassan

Deputy Director (Works) for Mines Labour Welfare Commissioner Punjab, Lahore

Client Reference: MLW/C.E/MT/50/17/6185

SOM Lab

Ref: 2866(Page-3/3)

Dated: 20-08-2020

Dated: 21-08-2020

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.657	4	0.496	0.20	0.193	5.47	8.92	60370	62560	98360	101930	1.50	8.0	18.8	
2	0.661	4	0.497	0.20	0.194	5.50	8.61	60700	62580	94990	97920	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk