

Project Manager

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

Zhuweijie, Jiangsu No. 1, Electric Power Cont Co. Ltd(JEPCC1) (1263MW Punjab Power Plant, Jhang)

Client Reference: nil

Dated: 21-11-2020

SOM Lab Ref: CED/SOM/3304(Page-1/1)

Dated: 23-11-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar

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	2.546	20	20.31	314	324	147.20	207.20	469	455	660	640	37.5	200	18.8	
2	2.546	20	20.32	314	324	150.70	208.00	480	465	662	642	30.0	200	15.0	
3	1.633	16	16.27	201	208	109.70	135.70	546	528	675	653	35.0	200	17.5	
4	1.621	16	16.22	201	207	110.70	136.70	551	536	680	662	30.0	200	15.0	
5	0.985	12	12.64	113	126	54.70	80.70	484	436	714	643	35.0	200	17.5	
6	0.987	12	12.65	113	126	54.70	80.20	484	436	709	638	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Muhammad Shafi

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Dy. Manager QA/QC, Quaid-E-Azam Business Park, Sheikhpura

Client Reference: QA/QC/QABP/GHE/01

Dated: 19-11-2020

SOM Lab Ref: CED/SOM/3307(Page-1/1)

Dated: 23-11-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar

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	0.998	12	12.72	113	127	72.20	94.20	638	569	833	742	25.0	200	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

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

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

Muhammad Umair Sajid

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Sr. Engineer(Civil), KCP (W&S) Post Office KCP Colony Girote Chowk Jauharabad

Client Reference: KCP(W&S)-Hosp-(Hostels)/2019

SOM Lab

Ref: 3305(Page-1/1)

Dated: 04-11-2020

Dated: 23-11-2020

Test: Tension Test & Bend 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	0.658	4	0.496	0.20	0.193	6.32	8.92	69700	72220	98360	101930	1.30	8.0	16.3	
2	0.655	4	0.494	0.20	0.192	6.27	8.86	69130	72010	97680	101750	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

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

Sub Divisional Officer
SSTH Multan Road Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: SS. DC()/805

SOM Lab

Ref: 3306(Page-1/1)

Dated: 12-11-2020

Dated: 23-11-2020

Test: Tension Test & Bend 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	1.463	6	0.740	0.44	0.430	16.48	20.03	82620	84540	100400	102740	1.10	8.0	13.8	
2	1.462	6	0.740	0.44	0.430	15.82	19.90	79300	81150	99740	102060	1.20	8.0	15.0	
3	0.664	4	0.498	0.20	0.195	6.19	9.33	68230	69980	102860	105490	1.00	8.0	12.5	
4	0.669	4	0.501	0.20	0.197	6.19	9.45	68230	69270	104200	105790	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Inspector of Works
Pakistan Railway Headquarter Office Lahore

Test Performed By: Dr. /Engr. M Rizwan Azam

Client Reference: 62-W/0/201/Lose
Dated: 23-11-2020
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 3308(Page-1/1)
Dated: 23-11-2020
ASTM-A-615
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	2.703	8	1.005	0.79	0.794	25.40	36.26	70920	70560	101230	100720	1.70	8.0	21.3	
2	2.697	8	1.005	0.79	0.793	25.86	36.21	72200	71930	101080	100700	1.20	8.0	15.0	
3	0.669	4	0.501	0.20	0.197	6.09	8.53	67110	68130	94090	95520	1.60	8.0	20.0	
4	0.668	4	0.500	0.20	0.196	5.88	8.41	64860	66190	92740	94630	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Muhammad Nabeel Aslam

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 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