Malik Sohaib, **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

Lab InchargeTEC,(Project: Const. of 1263MW Punjab Thermal Power Plant,Jhang)

Client Reference: TEC/UET/22042103 **Dated:** 27-06-2022

SOM Lab Ref: CED/SOM/562(Page-1/2) **Dated:** 27-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: M S Deformed Bar (Ittehad 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	4.017	25	25.53	491	512	289.00	359.20	589	565	732	702	30.0	200	15.0	H # 212
2	4.015	25	25.52	491	511	301.70	369.70	615	590	753	723	27.5	200	13.8	H # 212
3	2.418	20	19.80	314	308	164.50	199.70	524	535	636	649	30.0	200	15.0	H #114
4	2.418	20	19.80	314	308	165.00	203.70	525	536	648	662	27.5	200	13.8	H #114
5	0.888	12	12.00	113	113	46.50	69.50	411	411	615	615	30.0	200	15.0	H #508
6	0.888	12	12.00	113	113	47.20	70.20	417	418	621	621	27.5	200	13.8	H #508
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Witnessed By: M Imtiaz (Procurement Engineer)

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

Malik Sohaib, **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

Lab InchargeTEC,(Project: Const. of 1263MW Punjab Thermal Power Plant,Jhang)

Client Reference: TEC/UET/22062502 **Dated:** 27-06-2022

SOM Lab Ref: CED/SOM/562(Page-2/2) **Dated:** 27-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: M S Deformed Bar (FF 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	1.503	16	15.64	201	192	93.20	139.00	464	486	691	724	32.5	200	16.3	H # 232
2	1.516	16	15.68	201	193	93.50	139.70	465	485	695	724	30.0	200	15.0	H # 232
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Witnessed By: M Imtiaz (Procurement Engineer)

BEND TEST:

16mm	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

Kachhi Canal Consultants **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

PM.Sp Kachhi Canal Consultant.(Kachhi Canal Project Contract No.KC-04®)

Client Reference: SMS/KCC/KC-04®/7635 **SOM Lab Ref:** 555 (Page-1/1)

Dated: 05-04-2022 **Dated:** 27-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Mughal Steel)

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	2.681	8	1.002	0.79	0.788	23.96	31.75	66880	67050	88650	88870	1.40	8.0	17.5	
2	2.672	8	1.000	0.79	0.785	23.92	32.03	66790	67220	89420	89990	1.10	8.0	13.8	
3	0.669	4	0.501	0.20	0.197	7.08	8.61	78130	79320	94990	96430	0.90	8.0	11.3	
4	0.674	4	0.502	0.20	0.198	6.93	8.77	76440	77210	96670	97650	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

M.Siddique Sons **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Building Contractor,Lahore (168-C Ph-VIII,Lahore)

Client Reference: Nil **SOM Lab Ref:** 556 (Page-1/1)
Dated: 27-06-2022 **Dated:** 27-06-2022

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	1.488	6	0.746	0.44	0.437	16.82	20.85	84310	84890	104490	105210	1.20	8.0	15.0	
2	1.526	6	0.755	0.44	0.448	15.29	19.67	76640	75280	98610	96850	1.30	8.0	16.3	
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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.Shafaqat Ali **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
(Asst.Structure Engr) Unique Engineering Consultants,Lahore.

Client Reference: Nil **SOM Lab Ref:** 557 (Page-1/1)
Dated: 27-06-2022 **Dated:** 27-06-2022
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	2.665	8	0.998	0.79	0.783	26.88	34.32	75050	75720	95820	96680	1.30	8.0	16.3	
2	1.508	6	0.751	0.44	0.443	13.10	19.67	65660	65210	98610	97950	1.50	8.0	18.8	
3	0.595	4	0.472	0.20	0.175	6.07	8.23	66890	76440	90720	103670	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed

Note:-

Only Three Samples Received and Tested

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

Dr.Qasim Shaukat Khan **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Associate Professor Civil Engg Department UET Lahore.(Const. Of 324-D, Bankers Avenue,Lahore)

Client Reference: 003 **SOM Lab Ref:** 558 (Page-1/1)

Dated: 27-06-2022 **Dated:** 27-06-2022

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	1.529	6	0.756	0.44	0.449	15.55	19.06	77920	76360	95550	93630	1.30	8.0	16.3	
2	1.474	6	0.743	0.44	0.433	16.11	20.20	80730	82040	101270	102910	1.20	8.0	15.0	
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BEND TEST:

# 6	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

Naveed Ahmad **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

ME DHA Bahawalpur Cantonment.(Enlistment At DHAB.)

Client Reference: 530/QC/MTL **SOM Lab Ref:** 559 (Page-1/1)

Dated: 24-06-2022 **Dated:** 27-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (SJ Steel)

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	0.678	4	0.503	0.20	0.199	6.39	9.04	70480	70840	99710	100210	1.10	8.0	13.8	
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BEND TEST:

# 4	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

Qaiser Imran (Site Engr.) **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Wing Consultant.(Renovation And Upgradtion COE GTTI Mughalpura,Lahore)

Client Reference: Nil **SOM Lab Ref:** 560 (Page-1/1)

Dated: 23-06-2022 **Dated:** 27-06-2022

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	1.528	6	0.756	0.44	0.449	15.36	19.80	77000	75460	99230	97240	1.20	8.0	15.0	
2	1.529	6	0.756	0.44	0.449	15.49	19.95	77670	76110	99990	97990	1.30	8.0	16.3	
3	1.529	6	0.756	0.44	0.449	15.39	19.75	77160	75610	98970	96990	1.40	8.0	17.5	
4	0.676	4	0.503	0.20	0.199	7.10	8.97	78350	78740	98920	99420	1.10	8.0	13.8	
5	0.675	4	0.502	0.20	0.198	7.08	8.99	78130	78920	99150	100150	1.20	8.0	15.0	
6	0.678	4	0.503	0.20	0.199	6.75	8.79	74420	74790	96900	97380	1.20	8.0	15.0	
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BEND TEST:

--	No Bend test performed

Note:-

Only Six Samples Received and Tested

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

Iftikhar Haleem **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

The Engr,UAEET, IDAP Sambrial,Sialkot.(Estb Of Uni Of Applied Engg And Emerging Tech.(UAEET))

Client Reference: TE/UAEET/IDAP/SO/2022/19 **SOM Lab Ref:** 561 (Page-1/a1)

Dated: 20-06-2022 **Dated:** 27-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (AF Steel)

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	2.620	8	0.990	0.79	0.770	25.45	33.66	71060	72910	93970	96410	1.00	8.0	12.5	
2	2.619	8	0.990	0.79	0.770	27.32	35.65	76270	78250	99520	102100	1.00	8.0	12.5	
3	2.636	8	0.993	0.79	0.775	25.89	33.33	72290	73680	93060	94860	1.00	8.0	12.5	
4	2.628	8	0.991	0.79	0.772	25.64	34.20	71570	73240	95480	97700	1.40	8.0	17.5	
5	1.501	6	0.749	0.44	0.441	13.86	18.73	69490	69330	93860	93650	1.10	8.0	13.8	
6	1.500	6	0.749	0.44	0.441	13.56	18.65	67960	67800	93510	93290	1.20	8.0	15.0	
7	1.501	6	0.749	0.44	0.441	14.58	19.83	73070	72900	99380	99160	1.00	8.0	12.5	
8	1.505	6	0.750	0.44	0.442	15.19	18.57	76130	75790	93100	92680	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

Iftikhar Haleem **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

The Engr,UAEET, IDAP Sambrial,Sialkot.(Estb Of Uni Of Applied Engg And Emerging Tech.(UAEET))

Client Reference: TE/UAEET/IDAP/SO/2022/19 **SOM Lab Ref:** 561 (Page-1/b1)

Dated: 20-06-2022 **Dated:** 27-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (AF Steel)

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	0.671	4	0.501	0.20	0.197	6.01	8.61	66320	67330	94990	96430	1.20	8.0	15.0	
2	0.668	4	0.500	0.20	0.196	6.22	8.51	68570	69970	93860	95780	1.20	8.0	15.0	
3	0.663	4	0.498	0.20	0.195	6.22	8.58	68570	70330	94650	97080	1.10	8.0	13.8	
4	0.661	4	0.497	0.20	0.194	6.09	8.51	67110	69190	93860	96770	1.00	8.0	12.5	
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BEND TEST:

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

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

Variant
Gulberg 2 Lahore.

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

Client Reference: VA/29/18
Dated: 27-06-2022

SOM Lab Ref: 563 (Page-1/1)
Dated: 27-06-2022

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	2.683	8	1.002	0.79	0.788	25.13	34.81	70150	70330	97190	97430	1.30	8.0	16.3	
2	2.683	8	1.002	0.79	0.788	25.13	35.12	70150	70330	98040	98290	1.20	8.0	15.0	
3	1.538	6	0.759	0.44	0.452	14.73	20.23	73830	71870	101420	98730	1.50	8.0	18.8	
4	1.556	6	0.763	0.44	0.457	14.73	20.25	73830	71090	101530	97750	1.40	8.0	17.5	
5	0.674	4	0.502	0.20	0.198	6.34	9.12	69920	70630	100610	101620	1.20	8.0	15.0	
6	0.680	4	0.505	0.20	0.200	6.34	9.33	69920	69920	102860	102860	1.10	8.0	13.8	
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Witnessed By: M. Khurram

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Assistant Engineer **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Local Govt.& Community Dev,Civil SD Mwl.(Const Of New Office Bldg Union Council Thammay Wali)

Client Reference: 844/LG **SOM Lab Ref:** 564 (Page-1/1)

Dated: 11-06-2022 **Dated:** 27-06-2022

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	0.668	4	0.500	0.20	0.196	7.10	9.02	78350	79950	99480	101510	1.00	8.0	12.5	
2	0.663	4	0.498	0.20	0.195	5.91	9.04	65200	66870	99710	102260	1.10	8.0	13.8	
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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

Ahmed Ejaz **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Quantity Surveyor M/S Linker.(Const Of Hassan & Huma Residence,DHA Ph-VIII Sec-A,Lahore)

Client Reference: Nil **SOM Lab Ref:** 565 (Page-1/1)

Dated: 25-06-2022 **Dated:** 27-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Afco Steel)

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	1.486	6	0.746	0.44	0.437	13.91	18.17	69750	70230	91050	91680	1.50	8.0	18.8	
2	0.660	4	0.497	0.20	0.194	5.68	8.84	62610	64550	97460	100470	1.30	8.0	16.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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