Test Performed by: S. Asad Ali Gillani

Engr. Muhammad Shaaban
Resident Engineer
HA Consulting Lahore.
(Construction of Outdoor Sitting Café in NASTP DELTA Lahore)

Client Reference No.: HAC/UET/MTC/2401/05/001 Dated: 05-01-2024

SOM Lab Ref: CED/SOM/3520 (Page 1/4) Dated: 17-01-2024

Test Type: Tensile Test **Specification:** ASTM A-36

Sample Type: MS Sections **Gauge Length:** 2 inches

Tensile Test Results

Sr. No.	Sample Type	Size of strip (mm)	X Section Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	H-Beam	24.6 x 12.1	297.66	98.70	142.50	331.59	478.73	0.60	30.00
2	I-Beam	24.0 x 13.1	314.40	99.50	142.50	316.48	453.24	0.50	25.00
3	Base Plate	24.8x25.10	622.48	229.50	292.00	368.69	469.09	0.60	30.00

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

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

PowerChina SEPCO1 Electric Power Constuction.Co Ltd. (500KV Nokhar Grid Station)

Client Reference: WB-10A-GS-SEPCP01-90 **SOM Lab Ref:** 3521 (Page-1/1)

Dated: 16-01-2024 **Dated:** 17-01-2024

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

Guage Length: 200 mm **Sample Type:** MS Def 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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.214	19	18.95	284	282	129.20	181.50	455	459	639	644	27.5	200	13.8	
2	2.212	19	18.94	284	282	127.70	192.00	450	454	676	682	32.5	200	16.3	
3	1.544	16	15.83	201	197	88.20	136.70	439	449	680	696	35.0	200	17.5	
4	1.543	16	15.82	201	197	89.20	138.00	444	454	687	702	32.5	200	16.3	
5	0.885	12	11.98	113	113	55.00	80.20	487	489	710	712	30.0	200	15.0	
6	0.886	12	11.99	113	113	55.50	81.70	491	492	723	725	27.5	200	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Abrar Ahmed S.E (NESPAK) ,M.Faheem Power China(SEPCO-1)

BEND TEST:

19mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

Engr.Sadaqat Ahmad **Test Performed By:** **Dr. /Engr.** Nauman Khurram

RE IDAP.(Infra on EPC/Turnkey Basis For PPIC3 Faisalabad)

Client Reference: PPIC3/IDAP/2024/0001 **SOM Lab Ref:** 3524 (Page-1/2)

Dated: 16-01-2024 **Dated:** 17-01-2024

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

Guage Length: 200 mm **Sample Type:** MS Def Bar (Ittehad 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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.552	16	15.88	201	198	110.70	138.00	551	560	687	697	30.0	200	15.0	
2	1.520	16	15.70	201	194	102.70	130.20	511	531	648	673	30.0	200	15.0	
3	0.983	12	12.63	113	125	61.70	90.00	546	493	796	719	35.0	200	17.5	
4	0.976	12	12.58	113	124	62.70	90.20	555	505	798	726	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

Engr.Sadaqat Ahmad **Test Performed By:** **Dr. /Engr.** Nauman Khurram

RE IDAP.(Infra on EPC/Turnkey Basis For PPIC3 Faisalabad)

Client Reference: PPIC3/IDAP/2024/0003 **SOM Lab Ref:** 3524 (Page-2/2)

Dated: 16-01-2024 **Dated:** 17-01-2024

Test: Tension Test **Test Specification:** ASTM-F-1554

Guage Length: 200 mm **Sample Type:** Anchor Bolt

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	2.306	20	19.35	314	294	137.20	209.20	437	467	666	712	42.5	200	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed

Note:-

Only One Sample Received and Tested

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

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

RE HA Consulting.(Const. Of Outdoor Sitting Café in NASTP DELTA Lahore)

Client Reference: HAC/UET/MTC/2401/05/001 **Dated :** 05-01-2024

SOM Lab Ref: CED/SOM/3520 (Page-4/4) **Dated :** 17-01-2024

Test: Tension Test **Test Specification:** ASTM-F-1554

Sample Type: Anchor Bolt **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	2.482	20	20.06	314	316	139.00	210.20	442	440	669	666	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed

Note:-

Only One Sample Received and Tested

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

Deputy Director-I **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Building Research Station C & W Deptt Govt Of Punjab,Lahore.

SOM Lab

Client Reference: 154-R/204 **Ref:** 3522 (Page-1/1)

Dated: 17-01-2024 **Dated:** 17-01-2024

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	2.669	8	0.999	0.79	0.784	26.25	34.51	73280	73840	96330	97070	1.30	8.0	16.3	G-60
2	2.665	8	0.998	0.79	0.783	18.78	26.93	52420	52890	75190	75860	1.80	8.0	22.5	G-40
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Muhammad Usman,PM **Test Performed By:** **Dr. /Engr.** Nauman Khurram

M.Ahmad Associates.Faisalabad.(Const Of ABL Branch 5147 at P-463 Shadman Colony-I Lhr)

SOM Lab

Client Reference: Nil **Ref:** 3523 (Page-1/1)

Dated: 17-01-2024 **Dated:** 17-01-2024

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	2.613	8	0.989	0.79	0.768	24.49	33.69	68360	70320	94050	96750	1.40	8.0	17.5	
2	2.601	8	0.986	0.79	0.764	24.77	33.66	69160	71510	93970	97170	1.40	8.0	17.5	
3	1.475	6	0.743	0.44	0.433	14.68	18.67	73580	74770	93610	95120	1.30	8.0	16.3	
4	1.481	6	0.744	0.44	0.435	14.55	18.65	72910	73750	93510	94580	1.20	8.0	15.0	
5	0.656	4	0.496	0.20	0.193	6.78	8.97	74750	77470	98920	102510	1.40	8.0	17.5	
6	0.652	4	0.494	0.20	0.192	6.75	8.92	74420	77520	98360	102460	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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