

Director Development

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Punjab Employees Social Security Institution (Head Office) 3/A, Gulberg-V, Lahore

Client Reference: SS. DC/667

SOM Lab

Ref: 2971(Page-1/1)

Dated: 15-09-2020

Dated: 21-09-2020

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	1.502	6	0.749	0.44	0.441	12.86	20.41	64480	64340	102290	102060	1.20	8.0	15.0	
2	1.487	6	0.746	0.44	0.437	12.66	20.10	63460	63900	100760	101450	1.20	8.0	15.0	
3	0.657	4	0.496	0.20	0.193	5.96	9.28	65760	68150	102290	106000	1.10	8.0	13.8	
4	0.657	4	0.496	0.20	0.193	6.01	9.25	66320	68730	101960	105650	1.00	8.0	12.5	
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BEND TEST:

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

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

Director Development

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Dr. /Engr.

S. Asad Ali
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Punjab Employees Social Security Institution (Head Office) 3/A, Gulberg-V, Lahore

Client Reference: SS. DC/667

SOM Lab

Ref: 2971(Page-1/1)

Dated: 15-09-2020

Dated: 21-09-2020

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	1.502	6	0.749	0.44	0.441	12.86	20.41	64480	64340	102290	102060	1.20	8.0	15.0	
2	1.487	6	0.746	0.44	0.437	12.66	20.10	63460	63900	100760	101450	1.20	8.0	15.0	
3	0.657	4	0.496	0.20	0.193	5.96	9.28	65760	68150	102290	106000	1.10	8.0	13.8	
4	0.657	4	0.496	0.20	0.193	6.01	9.25	66320	68730	101960	105650	1.00	8.0	12.5	
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BEND TEST:

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

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

Muhammad Khalid

Pr. Engineer (Elect:), SWP, Pakistan Atomic Energy Commission D. G. Khan

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: SWP/W(1814)/2013/519

Dated: 18-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2973(Page-1/1)

Dated: 21-09-2020

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	2.548	8	0.977	0.79	0.749	24.97	34.07	69720	73540	95110	100310	1.20	8.0	15.0	
2	2.566	8	0.980	0.79	0.754	26.93	34.81	75190	78780	97190	101820	1.30	8.0	16.3	
3	1.646	6	0.785	0.44	0.484	16.46	21.40	82520	75020	107250	97500	1.10	8.0	13.8	
4	1.632	6	0.782	0.44	0.480	16.21	21.15	81240	74470	106020	97190	1.20	8.0	15.0	
5	0.679	4	0.505	0.20	0.200	7.10	8.86	78350	78350	97680	97680	1.00	8.0	12.5	
6	0.677	4	0.503	0.20	0.199	7.31	9.04	80600	81000	99710	100210	1.00	8.0	12.5	
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BEND TEST:

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

Muhammad Khalid

Pr. Engineer (Elect:), SWP, Pakistan Atomic Energy Commission D. G. Khan

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: SWP/W(1814)/2013/519

Dated: 18-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2973(Page-1/1)

Dated: 21-09-2020

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	2.548	8	0.977	0.79	0.749	24.97	34.07	69720	73540	95110	100310	1.20	8.0	15.0	
2	2.566	8	0.980	0.79	0.754	26.93	34.81	75190	78780	97190	101820	1.30	8.0	16.3	
3	1.646	6	0.785	0.44	0.484	16.46	21.40	82520	75020	107250	97500	1.10	8.0	13.8	
4	1.632	6	0.782	0.44	0.480	16.21	21.15	81240	74470	106020	97190	1.20	8.0	15.0	
5	0.679	4	0.505	0.20	0.200	7.10	8.86	78350	78350	97680	97680	1.00	8.0	12.5	
6	0.677	4	0.503	0.20	0.199	7.31	9.04	80600	81000	99710	100210	1.00	8.0	12.5	
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BEND TEST:

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

Sami Ullah Warraich

Project Manager, ICPL,- OMPL 0629, IZHAR Construction (Pvt) Ltd. Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: ICPL/CONST-OMPL/20/054

Dated: 21-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2974(Page-1/1)

Dated: 21-09-2020

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	1.473	6	0.743	0.44	0.433	14.07	19.90	70510	71650	99740	101350	1.20	8.0	15.0	
2	1.480	6	0.744	0.44	0.435	13.81	19.64	69240	70030	98460	99590	1.20	8.0	15.0	
3	0.653	4	0.494	0.20	0.192	6.14	8.58	67670	70490	94650	98590	1.10	8.0	13.8	
4	0.654	4	0.494	0.20	0.192	6.14	8.56	67670	70490	94420	98360	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Sami Ullah Warraich

Project Manager, ICPL,- OMPL 0629, IZHAR Construction (Pvt) Ltd. Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Client Reference: ICPL/CONST-OMPL/20/054

Dated: 21-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2974(Page-1/1)

Dated: 21-09-2020

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	1.473	6	0.743	0.44	0.433	14.07	19.90	70510	71650	99740	101350	1.20	8.0	15.0	
2	1.480	6	0.744	0.44	0.435	13.81	19.64	69240	70030	98460	99590	1.20	8.0	15.0	
3	0.653	4	0.494	0.20	0.192	6.14	8.58	67670	70490	94650	98590	1.10	8.0	13.8	
4	0.654	4	0.494	0.20	0.192	6.14	8.56	67670	70490	94420	98360	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Nafiz OZCAN

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Inc. Lahore

Client Reference: MIG/2020/1067

SOM Lab

Ref: 2975(Page-2/3)

Dated: 21-09-2020

Dated: 21-09-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala 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	2.041	7	0.874	0.60	0.600	13.56	20.85	49840	49840	76630	76630	1.90	8.0	23.8	G-40
2	2.039	7	0.873	0.60	0.599	13.73	20.87	50470	50560	76700	76830	2.00	8.0	25.0	G-40
3	1.464	6	0.740	0.44	0.430	14.32	19.93	71790	73460	99890	102210	1.10	8.0	13.8	G-60
4	1.478	6	0.743	0.44	0.434	14.78	20.46	74090	75110	102550	103970	1.20	8.0	15.0	G-60
5	0.663	4	0.498	0.20	0.195	5.71	8.61	62950	64570	94990	97420	1.20	8.0	15.0	G-60
6	0.661	4	0.497	0.20	0.194	5.40	8.66	59580	61420	95550	98500	1.20	8.0	15.0	G-60
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Witnessed By:

Fahad Zafar, Sr, Engineer NESPAK

BEND TEST:

# 7(sr.1&2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 6	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	
# 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

Nafiz OZCAN

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Inc. Lahore

Client Reference: MIG/2020/1067

SOM Lab

Ref: 2975(Page-3/3)

Dated: 21-09-2020

Dated: 21-09-2020

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Amreli 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	2.026	7	0.870	0.60	0.595	22.07	27.39	81120	81810	100680	101530	1.30	8.0	16.3	
2	2.026	7	0.870	0.60	0.595	22.02	27.29	80940	81620	100310	101150	1.10	8.0	13.8	
3	2.033	7	0.872	0.60	0.597	21.53	27.29	79140	79540	100310	100810	1.10	8.0	13.8	
4	1.503	6	0.750	0.44	0.442	16.92	20.76	84820	84440	104080	103610	1.20	8.0	15.0	
5	1.498	6	0.748	0.44	0.440	16.67	20.69	83540	83540	103720	103720	1.30	8.0	16.3	
6	1.502	6	0.749	0.44	0.441	16.69	20.56	83640	83450	103060	102830	1.20	8.0	15.0	
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Witnessed By:

Fahad Zafar, Sr, Engineer NESPAK

BEND TEST:

# 7(sr.1&2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 7	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	
# 6	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

Nafiz OZCAN

Contractor's Representative, SA - RA Energy, Construction Trade and Industry Inc. Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Client Reference: MIG/2020/1067

Dated: 21-09-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2975(Page-1/3)

Dated: 21-09-2020

ASTM-A-615

Deformed Bar(Batala 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	2.607	8	0.988	0.79	0.766	22.07	33.64	61610	63540	93910	96850	1.30	8.0	16.3	G-60
2	2.635	8	0.993	0.79	0.774	23.50	34.63	65600	66950	96670	98670	1.40	8.0	17.5	G-60
3	2.627	8	0.991	0.79	0.772	23.96	35.19	66880	68440	98240	100530	1.30	8.0	16.3	G-60
4	2.663	8	0.998	0.79	0.783	22.14	34.56	61810	62370	96470	97340	1.40	8.0	17.5	G-40
5	2.658	8	0.997	0.79	0.781	21.87	34.53	61040	61750	96390	97500	1.40	8.0	17.5	G-40
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Witnessed By: Fahad Zafar, Sr, Engineer NESPAK

BEND TEST:

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