

Muhammad Rana Manazar Ali
 PM AR Enterprise Lahore.(ALFATAH EMALL PROJECT)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: AEM/ST/UET/14/01

SOM Lab

Ref: 1794 (Page-1/2)

Dated: 21-02-2023

Dated: 22-02-2023

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	2.616	8	0.990	0.79	0.769	23.09	33.18	64460	66220	92630	95160	1.50	8.0	18.8	
2	2.620	8	0.990	0.79	0.770	33.97	33.59	94820	97290	93770	96210	1.50	8.0	18.8	
3	0.672	4	0.501	0.20	0.197	6.85	9.23	75540	76690	101730	103280	1.10	8.0	13.8	
4	0.668	4	0.500	0.20	0.196	6.63	9.07	73070	74560	100050	102090	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
# 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 Rana Manazar Ali
 PM AR Enterprise Lahore.(ALFATAH EMALL PROJECT)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: AEM/ST/UET/14/02

SOM Lab

Ref: 1794 (Page-2/2)

Dated: 21-02-2023

Dated: 22-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Sheikhoo Steel)

ASTM-A-615

Deformed Bar (Sheikhoo 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	2.648	8	0.995	0.79	0.778	25.61	34.35	71490	72590	95900	97380	1.60	8.0	20.0	
2	2.681	8	1.002	0.79	0.788	28.24	36.09	78830	79030	100740	101000	1.50	8.0	18.8	
3	1.501	6	0.749	0.44	0.441	14.60	19.29	73170	73000	96670	96450	1.30	8.0	16.3	
4	1.502	6	0.749	0.44	0.441	14.02	19.03	70260	70100	95400	95180	1.40	8.0	17.5	
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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	

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

PK Steel
Re-Rolling Mill Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1795 (Page-2/3)

Dated: 22-02-2023

Dated: 22-02-2023

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	1.443	6	0.735	0.44	0.424	9.94	15.65	49820	51700	78430	81390	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

PK Steel
Re-Rolling Mill Lahore.

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

Client Reference: Nil
Dated: 22-02-2023

SOM Lab
Ref: 1795 (Page-3/3)
Dated: 22-02-2023

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	0.686	4	0.507	0.20	0.202	5.05	7.54	55650	55090	83180	82360	1.50	8.0	18.8	
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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

PK Steel
Re-Rolling Mill Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 1795 (Page-1/3)

Dated: 22-02-2023

Dated: 22-02-2023

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	2.625	8	0.991	0.79	0.771	17.48	26.30	48810	50010	73420	75230	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Muhammad Asif

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberh-III,Lahore)

Client Reference: IMP/PM/66/04/106

SOM Lab

Ref:

1796 (Page-1/2)

Dated: 21-02-2023

Dated:

22-02-2023

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	0.675	4	0.502	0.20	0.198	5.91	8.00	65200	65860	88240	89130	1.30	8.0	16.3	
2	0.674	4	0.502	0.20	0.198	5.98	8.00	65990	66650	88240	89130	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Witnessed By: M. Husnain, Site Engineer (Imperium Developers)

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

Muhammad Asif

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Imperium Developers,Lahore.(Const Of Sixty6 at Gulberh-III,Lahore)

Client Reference: IMP/PM/66/04/107

SOM Lab

Ref:

1796 (Page-2/2)

Dated: 21-02-2023

Dated:

22-02-2023

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	2.669	8	0.999	0.79	0.784	27.44	35.19	76610	77200	98240	98990	1.30	8.0	16.3	
2	2.668	8	0.999	0.79	0.784	23.85	32.93	66590	67100	91920	92620	1.60	8.0	20.0	
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Witnessed By: M. Husnain, Site Engineer (Imperium Developers)

BEND TEST:

# 8	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

Muhammad Irfan
ME Banu Mukhtar Contracting(Pvt.) Ltd.(Burj-1 By AJWA Builders)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: DOC-BMC/AJWA/042

SOM Lab

Ref: 1797 (Page-1/1)

Dated: 22-02-2023

Dated: 22-02-2023

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	2.587	8	0.984	0.79	0.760	25.35	33.40	70780	73570	93260	96940	1.50	8.0	18.8	
2	2.657	8	0.997	0.79	0.781	25.86	33.44	72200	73030	93340	94420	1.40	8.0	17.5	
3	0.671	4	0.501	0.20	0.197	6.34	8.41	69920	70990	92740	94150	1.10	8.0	13.8	
4	0.672	4	0.501	0.20	0.197	6.29	8.31	69360	70410	91610	93010	1.20	8.0	15.0	
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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

M/S Project Managers

Test Performed By:

Dr. /Engr.

Nauman Khurram

Lahore.(Allied Bank Limited Plot No.14 Block A3 Gulberg III Lahore)

Client Reference: Nil

SOM Lab

Ref:

1798 (Page-1/1)

Dated: 22-02-2023

Dated:

22-02-2023

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	27.47	34.27	76700	76890	95680	95920	1.30	8.0	16.3	
2	2.685	8	1.002	0.79	0.789	27.29	34.51	76180	76280	96330	96450	1.40	8.0	17.5	
3	1.489	6	0.747	0.44	0.438	16.46	20.59	82520	82900	103210	103680	1.20	8.0	15.0	
4	1.483	6	0.745	0.44	0.436	16.79	20.80	84160	84930	104230	105190	1.10	8.0	13.8	
5	0.667	4	0.500	0.20	0.196	6.83	8.69	75320	76850	95770	97730	1.30	8.0	16.3	
6	0.669	4	0.501	0.20	0.197	7.03	8.94	77560	78750	98580	100080	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine 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

Engr.Qaisar Abbas PE/PMP

Test Performed By:

Dr. /Engr. Nauman Khurram

MSc-Civil/26299 DHA Lhr.(Resident Const Supervision Of H#91 Sec-D Phas-VI DHA Lahore Cantt.)

Client Reference: QA/2023/101

SOM Lab

Ref: 1799 (Page-1/1)

Dated: 22-02-2023

Dated: 22-02-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Model 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	1.478	6	0.743	0.44	0.434	14.02	18.86	70260	71230	94530	95830	1.40	8.0	17.5	
2	1.479	6	0.744	0.44	0.435	13.56	18.52	67960	68740	92840	93910	1.30	8.0	16.3	
3	1.476	6	0.743	0.44	0.434	14.02	18.71	70260	71230	93760	95060	1.30	8.0	16.3	
4	0.672	4	0.501	0.20	0.197	6.42	8.66	70820	71900	95550	97000	1.10	8.0	13.8	
5	0.674	4	0.502	0.20	0.198	6.39	8.53	70480	71190	94090	95040	1.10	8.0	13.8	
6	0.672	4	0.501	0.20	0.197	6.34	8.61	69920	70990	94990	96430	1.10	8.0	13.8	
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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

ENAARA Developers
Lahore.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 1800 (Page-1/1)

Dated: 22-02-2023

Dated: 22-02-2023

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	2.695	8	1.004	0.79	0.792	25.15	36.00	70210	70030	100510	100260	1.30	8.0	16.3	
2	2.674	8	1.000	0.79	0.786	24.87	35.75	69440	69790	99800	100310	1.30	8.0	16.3	
3	1.493	6	0.748	0.44	0.439	14.14	20.03	70870	71030	100400	100630	1.10	8.0	13.8	
4	1.510	6	0.752	0.44	0.444	14.34	20.34	71890	71250	101940	101020	1.20	8.0	15.0	
5	0.673	4	0.502	0.20	0.198	5.86	8.92	64640	65290	98360	99350	1.20	8.0	15.0	
6	0.674	4	0.502	0.20	0.198	5.91	8.92	65200	65860	98360	99350	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine 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

Aftab Anwar Khan,PM

Test Performed By: Dr. /Engr. Nauman Khurram

Zameen Development Lahore.(Const Of ZAMEEN NEO at Plot # 13,Block-H Gulberg III Lahore)

Client Reference: ZD/ZN/STR/02

SOM Lab

Ref: 1801 (Page-1/1)

Dated: 21-02-2023

Dated: 22-02-2023

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	2.689	8	1.003	0.79	0.790	28.49	36.95	79540	79540	103160	103160	1.40	8.0	17.5	Ittefaq
2	2.650	8	0.996	0.79	0.779	28.92	36.72	80740	81880	102510	103950	1.20	8.0	15.0	Ittefaq
3	1.497	6	0.748	0.44	0.440	17.23	21.22	86350	86350	106380	106380	1.00	8.0	12.5	Ittefaq
4	1.501	6	0.749	0.44	0.441	17.45	21.36	87480	87280	107040	106800	1.00	8.0	12.5	Ittefaq
5	1.466	6	0.741	0.44	0.431	10.88	16.21	54520	55660	81240	82940	1.50	8.0	18.8	Kamran
6	1.476	6	0.743	0.44	0.434	13.43	18.04	67290	68220	90440	91690	1.40	8.0	17.5	Kamran
7	1.488	6	0.746	0.44	0.437	11.16	16.28	55950	56340	81600	82160	1.60	8.0	20.0	Kamran
8	1.517	6	0.754	0.44	0.446	14.48	19.18	72560	71580	96160	94870	1.50	8.0	18.8	Kamran
9	0.664	4	0.498	0.20	0.195	6.57	8.79	72510	74360	96900	99380	1.30	8.0	16.3	Kamran
10	0.673	4	0.502	0.20	0.198	7.85	9.84	86560	87430	108480	109570	1.10	8.0	13.8	Kamran

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen Samples Received and Tested
# 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	
# 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. Hasnat Khalid Bajwa

Test Performed By:

Dr. /Engr. Nauman Khurram

CM Zameen Aurum,(Construction Of Zameen Aurum at Plot No.15 Block L,Gulberg-III Lahore)

Client Reference: Nil

SOM Lab

Ref: 1802 (Page-1/1)

Dated: 22-02-2023

Dated: 22-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kamran 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	0.673	4	0.502	0.20	0.198	6.09	8.31	67110	67790	91610	92540	1.20	8.0	15.0	
2	0.667	4	0.500	0.20	0.196	6.17	8.21	68010	69400	90490	92340	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Sector G)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 111/15/AD/RS/Pkg-2B/1403

SOM Lab

Ref: 1803 (Page-1/1)

Dated: 20-02-2023

Dated: 22-02-2023

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	1.477	6	0.743	0.44	0.434	15.36	21.00	77000	78070	105260	106710	1.20	8.0	15.0	
2	1.485	6	0.745	0.44	0.436	15.34	21.00	76900	77610	105260	106220	1.30	8.0	16.3	
3	0.673	4	0.502	0.20	0.198	6.34	8.72	69920	70630	96110	97080	1.20	8.0	15.0	
4	0.675	4	0.502	0.20	0.198	6.14	8.43	67670	68360	92960	93900	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Engr. Zia Shafqat Ali, PM

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

Al Hussain Traders Contr. AHTC-AHTE (JV) (Auto-Transformer Bay at 220KV NTDC G/Station Khuzdar)

Client Reference: AHTC-AHTE(JV)/NOR-125-2022/126-29

SOM Lab

Ref: 1804 (Page-1a/1)

Dated: 22-02-2023

Dated: 22-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Union Steel)

ASTM-A-615

Deformed Bar (Union 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	2.656	8	0.997	0.79	0.781	22.50	29.87	62810	63530	83380	84340	1.20	8.0	15.0	
2	2.652	8	0.996	0.79	0.779	22.32	29.84	62330	63210	83300	84470	1.40	8.0	17.5	
3	2.657	8	0.997	0.79	0.781	22.22	29.57	62040	62760	82560	83510	1.40	8.0	17.5	
4	1.557	6	0.764	0.44	0.458	16.94	21.76	84920	81580	109090	104800	1.30	8.0	16.3	
5	1.551	6	0.762	0.44	0.456	17.33	22.04	86860	83820	110470	106590	1.30	8.0	16.3	
6	1.552	6	0.762	0.44	0.456	17.30	22.09	86710	83670	110720	106840	1.30	8.0	16.3	
7	0.673	4	0.502	0.20	0.198	5.81	7.32	64080	64720	80710	81530	1.00	8.0	12.5	
8	0.663	4	0.498	0.20	0.195	5.91	7.29	65200	66870	80370	82430	1.20	8.0	15.0	
9	0.670	4	0.501	0.20	0.197	5.81	7.30	64080	65050	80490	81710	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

Sr. # (1-2) Sample bend through 180 degrees Satisfactorily without any crack

Sr. # (4-5) Sample bend through 180 degrees Satisfactorily without any crack

Sr. # (7-8) Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Fifteen Samples Received and Tested

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

Engr. Zia Shafqat Ali, PM

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

Al Hussain Traders Contr. AHTC-AHTE (JV) (Auto-Transformer Bay at 220KV NTDC G/Station Khuzdar)

Client Reference: AHTC-AHTE(JV)/NOR-125-2022/126-29

SOM Lab

Ref: 1804 (Page-1b/1)

Dated: 22-02-2023

Dated: 22-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Sheikhoo 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	1.538	6	0.759	0.44	0.452	16.36	21.73	82010	79830	108940	106040	1.30	8.0	16.3	
2	1.550	6	0.762	0.44	0.456	16.26	21.87	81500	78640	109600	105750	1.20	8.0	15.0	
3	1.545	6	0.760	0.44	0.454	16.13	21.76	80830	78340	109090	105720	1.40	8.0	17.5	
4	1.044	5	0.625	0.31	0.307	10.11	13.43	71940	72650	95510	96450	1.40	8.0	17.5	
5	1.050	5	0.627	0.31	0.309	10.81	13.73	76880	77120	97690	98000	1.50	8.0	18.8	
6	1.049	5	0.626	0.31	0.308	10.16	13.48	72310	72780	95880	96500	1.40	8.0	17.5	
7	0.666	4	0.500	0.20	0.196	6.03	8.26	66550	67910	91050	92910	1.40	8.0	17.5	
8	0.668	4	0.500	0.20	0.196	6.01	8.23	66320	67680	90720	92570	1.30	8.0	16.3	
9	0.669	4	0.501	0.20	0.197	6.12	8.28	67450	68470	91280	92670	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

Sr. # (1-2) Sample bend through 180 degrees Satisfactorily without any crack

Sr. # (4-5) Sample bend through 180 degrees Satisfactorily without any crack

Sr. # (7-8) Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Fifteen Samples Received and Tested

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

Engr. Zia Shafqat Ali, PM

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

Al Hussain Traders Contr. AHTC-AHTE (JV) (Auto-Transformer Bay at 220KV NTDC G/Station Khuzdar)

Client Reference: AHTC-AHTE(JV)/NOR-125-2022/126-29

SOM Lab

Ref: 1804 (Page-1c/1)

Dated: 22-02-2023

Dated: 22-02-2023

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	1.043	5	0.625	0.31	0.307	9.89	13.93	70350	71040	99140	100110	1.00	8.0	12.5	
2	1.049	5	0.626	0.31	0.308	9.58	13.71	68170	68620	97540	98180	1.20	8.0	15.0	
3	1.045	5	0.625	0.31	0.307	9.48	13.48	67450	68110	95880	96810	1.10	8.0	13.8	
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BEND TEST:

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