

Engr. Karamat Ullah

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Resident Engineer, NESPAK (Pvt) Ltd. Islamabad

Client Reference: 3968/OBR/P-01/RE/KU/405

Dated: 03-10-2019

SOM Lab Ref: CED/SOM/1520 (Page-1/1)

Dated: 04-10-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar(Pak & Mughal 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	2.202	20	18.92	314	281	184.70	224.20	588	658	714	798	25.0	200	12.5	
2	2.203	20	18.90	314	281	193.70	225.20	617	691	717	803	22.5	200	11.3	
3	0.953	12	12.44	113	121	67.20	84.90	594	554	751	700	27.5	200	13.8	
4	0.962	12	12.49	113	123	67.00	86.00	592	547	760	702	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
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

Maj ® Adnan Aftab Khan

Test Performed By:

Dr. /Engr.

Nauman
Khurram

RE, VO-2 (M-2) ACC Prime JV. Lahore

Client Reference: RE/VO2-M2/LAB/190

Dated: 03-10-2019

SOM Lab Ref: CED/SOM/1527 (Page-1/1)

Dated: 04-10-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-F-1554

Sample Type: 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	3.840	25	24.95	491	489	227.50	341.70	463	466	696	699	25.0	50	50.0	
2	3.852	25	25.00	491	491	274.50	339.20	559	560	691	692	30.0	50	60.0	
3	2.445	20	19.91	314	311	153.50	206.70	489	493	658	664	37.5	200	18.8	
4	2.470	20	20.02	314	315	152.50	206.50	485	485	657	657	32.5	200	16.3	
5	0.903	12	12.10	113	115	56.50	76.00	500	492	672	661	25.0	200	12.5	
6	0.900	12	12.09	113	115	56.00	75.20	495	489	665	656	30.0	200	15.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	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 Farhan

Test Performed By:

Dr. /Engr.

M. Irfan Ul Hassan

Senior Engineer (Civil) for BARQAAB Consulting Services (Pvt) Ltd. Lahore

Client Reference: BQB/PIE/667

Dated: 20-09-2019

SOM Lab Ref: CED/SOM/1528 (Page-1/1)

Dated: 04-10-2019

Test: Tension Test & Bend Test

Test Specification: ASTM-F-1554

Sample Type: 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	2.226	19	19.02	284	284	164.50	199.00	580	580	702	701	27.5	50	55.0	
2	2.219	19	18.97	284	283	159.20	195.00	561	564	688	690	30.0	50	60.0	
3	1.002	13	12.75	133	128	63.50	96.50	478	498	727	757	25.0	200	12.5	
4	0.979	13	12.60	133	125	62.70	94.70	472	503	713	760	30.0	200	15.0	
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BEND TEST:

19mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
13mm	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

Bully shah Cold Storge ,
Defene Road, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: nil

Dated: 04-10-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref:

1522 (Page-1/1)

Dated:

04-10-2019

ASTM-A-615

Deformed

Bar

Gauge Length:

8 inch

Sample Type:

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	2.610	8	0.988	0.79	0.767	28.49	34.56	79540	81930	96470	99370	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Secretery Jamia

Jamia Tul Muntazar (Trust), H-Block, Model Town, Lahore (Pakistan)

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 141

Dated: 04-10-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref:

1523(Page-1/1)

Dated:

04-10-2019

ASTM-A-615

Deformed

Bar

Gauge Length:

8 inch

Sample Type:

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	2.672	8	1.000	0.79	0.785	26.15	35.70	73000	73460	99660	100300	1.10	8.0	13.8	
2	1.601	6	0.774	0.44	0.470	17.38	23.01	87120	81560	115320	107960	1.10	8.0	13.8	
3	0.663	4	0.498	0.20	0.195	6.07	9.50	66890	68600	104770	107450	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

Engr Muhammad Ahmed Raza

General Manager (Technical), NEIE Al- Hussain Traders (Joint Venture)

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Client Reference: NAJ/ADB-73-2015/MZGS/4634-37

Dated: 03-10-2019

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 1524(Page-1/1)

Dated: 04-10-2019

ASTM-A-615

Deformed Bar (City 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	1.073	5	0.633	0.31	0.315	9.86	13.27	70130	69020	94420	92930	1.50	8.0	18.8	
2	1.073	5	0.633	0.31	0.315	10.06	13.71	71580	70450	97540	95990	1.30	8.0	16.3	
3	1.070	5	0.632	0.31	0.314	9.66	13.10	68750	67880	93190	92000	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

LING Yi
Project Manager, China CAMC Engineering Co. Ltd.

Test Performed By:

Dr. /Engr. M Irfan UI Hassan

Client Reference: P9-MRPS-L0012 PK01E-B1-C-CAMCE-LG0012

SOM Lab

Ref: 1525(Page-1/1)

Dated: 03-10-2019

Dated: 04-10-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (City 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	2.710	8	1.007	0.79	0.796	23.06	35.09	64370	63890	97950	97220	1.50	8.0	18.8	
2	2.721	8	1.009	0.79	0.800	22.88	35.58	63890	63090	99320	98080	1.50	8.0	18.8	
3	2.724	8	1.010	0.79	0.801	22.91	35.44	63950	63070	98950	97590	1.30	8.0	16.3	
4	1.481	6	0.744	0.44	0.435	13.32	19.59	66780	67550	98210	99330	1.30	8.0	16.3	
5	1.477	6	0.743	0.44	0.434	13.43	19.54	67290	68220	97950	99300	1.10	8.0	13.8	
6	1.476	6	0.743	0.44	0.434	13.35	19.59	66940	67860	98210	99560	1.30	8.0	16.3	
7	0.647	4	0.492	0.20	0.190	5.81	8.94	64080	67450	98580	103770	1.30	8.0	16.3	
8	0.656	4	0.496	0.20	0.193	5.86	9.09	64640	66980	100270	103910	1.30	8.0	16.3	
9	0.652	4	0.494	0.20	0.192	5.88	9.07	64860	67560	100050	104210	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8(S. 1, 2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen Samples Received and Tested
# 6(S. 3,4)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(S. 5,6)	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

Muhammad Nadeem Aslam
Project Director, SIAL

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: SIAL/02/21/CON/757

Dated: 03-10-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 1526(Page-1/1)

Dated: 04-10-2019

ASTM-A-615

Deformed

Bar

Gauge Length: 8 inch

Sample Type:

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	25.64	34.02	71570	73430	94970	97430	1.20	8.0	15.0	
2	2.599	8	0.986	0.79	0.764	25.23	33.51	70440	72830	93540	96730	1.50	8.0	18.8	
3	1.469	6	0.742	0.44	0.432	12.79	16.67	64130	65310	83540	85090	1.20	8.0	15.0	
4	1.486	6	0.746	0.44	0.437	13.05	17.18	65400	65850	86100	86690	1.30	8.0	16.3	
5	0.668	4	0.500	0.20	0.196	5.45	7.82	60140	61370	86220	87980	1.50	8.0	18.8	
6	0.673	4	0.502	0.20	0.198	5.37	7.80	59240	59840	85990	86860	1.60	8.0	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Noman Abdul Khaliq
Assistant Director o/o Project Director (HVDC) NTDC, Lahore

Test Performed By: Dr. /Engr.

M Irfan UI Hassan

Client Reference: 2001-05/PD/HVDC/NTDC/LHR

Dated: 04-10-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 1529(Page-1/3)

Dated: 04-10-2019

ASTM-A-615

Deformed

Bar

Gauge Length: 8 inch

Sample Type:

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	2.630	8	0.992	0.79	0.773	26.66	35.14	74420	76060	98100	100250	1.60	8.0	20.0	
2	2.630	8	0.992	0.79	0.773	25.05	33.64	69920	71460	93910	95980	1.40	8.0	17.5	
3	2.668	8	0.999	0.79	0.784	24.34	33.03	67960	68480	92210	92910	1.40	8.0	17.5	
4	2.663	8	0.998	0.79	0.783	26.32	34.83	73480	74140	97240	98110	1.40	8.0	17.5	
5	0.651	4	0.493	0.20	0.191	5.83	8.12	64300	67330	89590	93810	1.50	8.0	18.8	
6	0.649	4	0.493	0.20	0.191	5.91	8.05	65200	68270	88800	92990	1.30	8.0	16.3	
7	0.652	4	0.494	0.20	0.192	5.88	8.10	64860	67560	89370	93090	1.20	8.0	15.0	
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Witnessed By: Engr. Muaz Yasin , DM (HVDC) NTDC, M Abbas OE, & Dr. Ali Adnan

BEND TEST:

# 8(S.1,2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 8(S.3,4)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(S.5,6)	Sample bend through 180 degrees Satisfactorily without any crack	
# 4(S. 7,)	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

Noman Abdul Khaliq
Assistant Director o/o Project Director (HVDC) NTDC, Lahore

Test Performed By: Dr. /Engr.

M Irfan UI Hassan

Client Reference: 2001-05/PD/HVDC/NTDC/LHR

Dated: 04-10-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 1529(Page-2/3)

Dated: 04-10-2019

ASTM-A-615

Deformed

Bar

Gauge Length: 8 inch

Sample Type:

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	0.999	5	0.612	0.31	0.294	9.55	13.27	67960	71650	94420	99560	1.10	8.0	13.8	
2	1.009	5	0.615	0.31	0.297	9.18	12.66	65340	68200	90070	94020	1.10	8.0	13.8	
3	1.007	5	0.614	0.31	0.296	9.25	12.81	65780	68890	91160	95470	1.40	8.0	17.5	
4	1.008	5	0.614	0.31	0.296	9.35	13.10	66500	69650	93190	97600	1.40	8.0	17.5	
5	1.009	5	0.615	0.31	0.297	9.26	13.07	65850	68730	92970	97040	1.30	8.0	16.3	
6	1.028	5	0.620	0.31	0.302	9.79	13.37	69620	71470	95150	97670	1.10	8.0	13.8	
7	1.012	5	0.615	0.31	0.297	10.72	13.76	76300	79630	97910	102190	1.20	8.0	15.0	
8	1.021	5	0.618	0.31	0.300	9.40	13.05	66870	69100	92830	95920	1.20	8.0	15.0	
9	1.030	5	0.621	0.31	0.303	9.50	13.17	67590	69150	93700	95860	1.30	8.0	16.3	
10	1.003	5	0.613	0.31	0.295	9.65	13.48	68680	72170	95880	100750	1.30	8.0	16.3	

Witnessed By: Engr. Muaz Yasin , DM (HVDC) NTDC, M Abbas OE, & Dr. Ali Adnan

BEND TEST:

# 5(S.1,2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twenty Samples Received and Tested
# 5(S.3,4)	Sample bend through 180 degrees Satisfactorily without any crack	
# 5(S.5,6)	Sample bend through 180 degrees Satisfactorily without any crack	
# 5(S. 7,8)	Sample bend through 180 degrees Satisfactorily without any crack	
# 5(S. 9,10)	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

Noman Abdul Khaliq
Assistant Director o/o Project Director (HVDC) NTDC, Lahore

Test Performed By: Dr. /Engr.

M Irfan Ul Hassan

Client Reference: 2001-05/PD/HVDC/NTDC/LHR

Dated: 04-10-2019

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 1529(Page-3/3)

Dated: 04-10-2019

ASTM-A-615

Deformed

Bar

Gauge Length: 8 inch

Sample Type:

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	0.996	5	0.611	0.31	0.293	9.43	13.25	67090	70980	94280	99750	1.30	8.0	16.3	
2	1.002	5	0.612	0.31	0.294	9.81	13.15	69770	73560	93550	98650	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Engr. Muaz Yasin , DM (HVDC) NTDC, M Abbas OE, & Dr. Ali Adnan

BEND TEST:

# 5(S.1,2)	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