

Ajaz Ahmad Gondal

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Acting Chief Resident Engineer, Trimu Panjnad Barrages Consultants(TPB Consultants)

Client Reference: TPBC/CRE/NCB-01/5025

Dated: 08-01-2021

SOM Lab Ref: CED/SOM/3605(Page-1/1)

Dated: 11--01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar (Ittefaq 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	3.877	25	25.08	491	494	262.50	350.50	535	532	714	710	30.0	200	15.0	
2	3.866	25	25.04	491	492	265.50	354.50	541	540	722	720	32.5	200	16.3	
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Witnessed By:

Ashiq Hussain, M.E. TPBC

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested
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 Shakil

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Chief Executive, Technical Associates Pakistan (Pvt) Ltd. Lahore

Client Reference: niul

Dated: 11-01-2021

SOM Lab Ref: CED/SOM/3615 (Page-1/1)

Dated: 11-01-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

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	0.976	12	12.57	113	124	73.20	89.20	647	591	789	720	27.5	200	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

12mm	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

Major Muhammad Aslam, (Retd)

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Resident Engineer, Penta Square Project, Al-Imam Enterprises (Pvt) Ltd Lahore

Client Reference: Al-Imam/746/PS-1/DHA/LHE/1229

Dated: 04-01-2021

SOM Lab Ref: CED/SOM/3619(Page-1/1)

Dated: 011-01=2021

Test: Tension and Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar(Batala Premium 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	0.903	12	12.10	113	115	68.90	87.00	609	600	769	757	22.5	200	11.3	
2	0.902	12	12.10	113	115	69.20	87.00	612	603	769	758	25.0	200	12.5	
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BEND TEST:

12mm	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

Resident Engineer/Team Leader

Test Performed By:

Dr. /Engr.

M. Irfan UI Hassan

Prime Engineering Consultancy, Kallurkot Bidge Project

Client Reference: KK-DIK-BR-PJ/2021/224

Dated: 11-01-2021

SOM Lab Ref: CED/SOM/3621(Page-1/2)

Dated: 11-01-0221

Test: Tension Test & bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar(Pak 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	2.500	20	20.12	314	318	173.00	218.20	551	545	695	687	35.0	200	17.5	
2	0.893	12	12.04	113	114	54.00	76.00	477	475	672	668	30.0	200	15.0	
3	0.895	12	12.05	113	114	56.00	80.00	495	492	707	703	27.5	200	13.8	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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

Resident Engineer/Team Leader

Test Performed By:

Dr. /Engr.

M. Irfan Ul Hassan

Prime Engineering Consultancy, Kallurkot Bridge Project

Client Reference: KK-DIK-BR-PJ/2021/225

Dated: 11-01-2021

SOM Lab Ref: CED/SOM/3621(Page-2/2)

Dated: 11-01-0221

Test: Tension Test & bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar(Nomee 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	0.905	12	12.10	113	115	51.00	77.70	451	444	687	676	30.0	200	15.0	
2	0.893	12	12.04	113	114	50.50	76.70	447	444	678	674	27.5	200	13.8	
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BEND TEST:

12mm	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

Ajaz Ahmad Gondal

Acting Chief Resident Engineer, Trimu Panjnad Barrages Improvement Project(TPBIP)

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: TPBC/CRE/NCB-01/5025

Dated: 08-01-2021

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3605(Page-1/1)

Dated: 11-01-2021

ASTM-A-615

Deformed Bar(Ittefaq 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	0.672	4	0.501	0.20	0.197	6.17	9.19	68010	69050	101390	102940	1.20	8.0	15.0	
2	0.675	4	0.502	0.20	0.198	6.07	9.19	66890	67560	101390	102420	1.10	8.0	13.8	
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Witnessed By: Ashaq Hussain, M.E. TPBC

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

Umair Maqsood
Sub Divisional Officer, Building Sub Division, Assembly, Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 19-

Dated: 06-01-2021

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 3604(Page-1/1)

Dated: 11-01-2021\

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	2.680	8	1.002	0.79	0.788	29.05	39.06	81110	81310	109050	109330	1.10	8.0	13.8	
2	2.666	8	0.998	0.79	0.783	28.13	38.55	78550	79250	107630	108590	1.30	8.0	16.3	
3	1.560	6	0.764	0.44	0.458	15.04	20.29	75370	72410	101680	97680	1.10	8.0	13.8	
4	1.563	6	0.764	0.44	0.459	14.70	20.18	73680	70630	101170	96980	1.20	8.0	15.0	
5	0.698	4	0.511	0.20	0.205	7.46	9.58	82290	80280	105670	103090	1.30	8.0	16.3	
6	0.698	4	0.511	0.20	0.205	7.31	9.48	80600	78630	104540	101990	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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

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

Client Reference: ST/UET/ 2021011

SOM Lab
Ref: 3606(Page-1/1)

Dated: 11-01-2021

Dated: 11-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala Premium)

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	7.61	9.63	83970	84820	106230	107300	1.20	8.0	15.0	
2	0.668	4	0.500	0.20	0.196	7.59	9.53	83750	85460	105100	107250	1.00	8.0	12.5	
3	0.653	4	0.494	0.20	0.192	7.10	9.23	78350	81620	101730	105970	1.10	8.0	13.8	
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BEND TEST:

# 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

Abdul Ghafar
Project Manager Liberty Builders, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: ST/UET/ 20210108-A

SOM Lab

Ref: 3595(Page-1/1)

Dated: 08-01-2021

Dated: 08-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(Batala Premium)

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	2.571	8	0.981	0.79	0.756	24.43	35.65	68220	71280	99520	103990	1.40	8.0	17.5	
2	2.616	8	0.990	0.79	0.769	24.26	35.04	67730	69580	97810	100480	1.50	8.0	18.8	
3	2.602	8	0.987	0.79	0.765	24.49	36.49	68360	70590	101880	105210	1.50	8.0	18.8	
4	1.488	6	0.746	0.44	0.437	16.87	22.48	84560	85140	112660	113440	1.60	8.0	20.0	
5	1.466	6	0.741	0.44	0.431	15.97	21.83	80070	81740	109450	111730	1.50	8.0	18.8	
6	1.500	6	0.749	0.44	0.441	16.43	21.99	82370	82180	110210	109960	1.10	8.0	13.8	
7	0.661	4	0.497	0.20	0.194	6.93	8.92	76440	78800	98360	101400	1.00	8.0	12.5	
8	0.665	4	0.498	0.20	0.195	6.98	9.12	77000	78980	100610	103190	1.00	8.0	12.5	
9	0.671	4	0.501	0.20	0.197	6.57	9.04	72510	73610	99710	101230	1.10	8.0	13.8	
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BEND TEST:

# 8	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	
# 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

Best Builders

Engineer & Constructor, 324 Q, Model Town Ext., Lahore(TCF School DAFID Project Kasur Area)

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: nil

Dated: 11-01-2021

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 3607(Page-1/1)

Dated: 11-01-2021

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	0.684	4	0.506	0.20	0.201	6.09	8.66	67110	66780	95550	95070	1.30	8.0	16.3	
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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

Riaz Construction Company

Civil Contractor, 205-A, Block NFC Street 1, Lahore (TCF School DAFID Project Kasur Area)

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: nil

Dated: 11-01-2021

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref:

3608(Page-1/1)

Dated:

11-01-2021

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	0.688	4	0.507	0.20	0.202	6.09	8.66	67110	66450	95550	94600	1.30	8.0	16.3	
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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

Engr Mussab Anwar

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Project Manager, Excel Services & Engineering (Pvt) Ltd. Lahore

Client Reference: ESE-142-06

SOM Lab

Ref:

3612(Page-1/1)

Dated: 11-01-2021

Dated:

11-01-2021

Test: Tension Test

Test Specification:

BS-4449

Gauge Length: 8 inch

Sample Type:

Tor 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	1.316	6	0.702	0.44	0.387	12.33	16.84	61830	70290	84410	95970	0.25	3.0	8.3	AJWA-1
2	1.321	6	0.703	0.44	0.388	12.59	17.89	63100	71560	89670	101690	0.20	3.0	6.7	AJWA-2
3	1.316	6	0.702	0.44	0.387	12.95	16.59	64890	73780	83130	94520	0.20	3.0	6.7	AJWA-3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Witnessed By: Kamran Nawaz, Asst. Site Engineer, (Liberty Builders)

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

Imran Khan
 XEN, Office Commanding, 702 Pak Works SEC. MES

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: 600/14/E-6

SOM Lab

Ref: 3614(Page-1/1)

Dated: 05-01-2021

Dated: 11-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (AF
 Steel)

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	2.658	8	0.997	0.79	0.781	24.72	35.04	69010	69810	97810	98940	1.10	8.0	13.8	
2	2.659	8	0.997	0.79	0.781	24.52	34.71	68440	69230	96900	98020	1.20	8.0	15.0	
3	1.533	6	0.758	0.44	0.451	13.35	19.32	66940	65300	96830	94460	1.30	8.0	16.3	
4	1.541	6	0.759	0.44	0.453	13.66	19.42	68470	66500	97340	94540	1.30	8.0	16.3	
5	1.051	5	0.627	0.31	0.309	9.58	13.56	68170	68390	96460	96770	1.30	8.0	16.3	
6	1.056	5	0.628	0.31	0.310	9.58	13.51	68170	68170	96090	96090	1.20	8.0	15.0	
7	0.669	4	0.501	0.20	0.197	5.81	87.36	64080	65050	963310	977980	1.20	8.0	15.0	
8	0.672	4	0.501	0.20	0.197	5.91	8.84	65200	66190	97460	98940	1.10	8.0	13.8	
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Witnessed By: M. Aftab Hussain, Sub Engineer; MES

BEND TEST:

# 8	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	
# 5	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 Shakil
Chief Executive, Technical Associates Pakistan (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: Nil

SOM Lab

Ref: 3615(Page-1/1)

Dated: 44501

Dated: 11-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	1.489	6	0.747	0.44	0.438	14.09	19.67	70620	70940	98610	99060	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Witnessed By: Sohaib Ali, Sub Engineer, NESPAK

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Two Samples Received and Tested</p>
# 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	
(Sr. 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

Khalil Ur Rehman
Chirf Executive, Paidar Builders (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asas Ali
Gillani

Client Reference: PBL/UET/2020-388

Dated: 11-01-2021

Test: Tension Test & Bend Test

Test Specification:

SOM Lab

Ref: 3616(Page-1/)

Dated: 11-01-2021

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	0.684	4	0.506	0.20	0.201	6.09	8.69	67110	66780	95770	95300	1.60	8.0	20.0	
2	0.684	4	0.506	0.20	0.201	5.98	8.65	65990	65660	95440	94960	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Sub Divisional Officer
Building Sub Division Nankana Sahib

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

Client Reference: 400/SDO/BSD/NNS

SOM Lab Ref: 3617(Page-1/1)

Dated: 04-12-2020

Dated: 11-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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	1.489	6	0.747	0.44	0.438	14.95	18.65	74960	75300	93510	93930	1.30	8.0	16.3	
2	0.641	4	0.489	0.20	0.188	6.39	8.33	70480	74980	91840	97700	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Sub Divisional Officer
Building Sub Division Nankana Sahib

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

Client Reference: 401/SDO/BSD/NNS

SOM Lab Ref: 3618(Page-1/1)

Dated: 04-12-2020

Dated: 11-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Guage 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	1.489	6	0.747	0.44	0.438	15.31	19.01	76750	77100	95290	95730	1.20	8.0	15.0	
2	0.618	4	0.481	0.20	0.182	6.24	8.07	68800	75600	89030	97830	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Ravi Construction Co.
Project: Aitchison College, Lahore

Test Performed By: Dr. /Engr. M. Irfan ul Hassan

Client Reference: UET/RCC/009/21

SOM Lab
Ref: 3622(Page-1/1)

Dated: 11-01-2021

Dated: 11-01-2021

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	1.527	6	0.756	0.44	0.449	13.25	20.44	66430	65090	102450	100390	1.50	8.0	18.8	
2	1.542	6	0.759	0.44	0.453	13.15	20.15	65910	64020	101020	98120	1.60	8.0	20.0	
3	0.672	4	0.501	0.20	0.197	6.63	9.09	73070	74180	100270	101800	1.20	8.0	15.0	
4	0.656	4	0.496	0.20	0.193	6.83	8.97	75320	78050	98920	102510	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Ravi Construction Company
 37- Usman Block. New Garden Town, Lahore (Project: Aitchison College)

Test Performed By: Dr. /Engr. M Irfan UI Hassan

Client Reference: UET/RCC/010/21

SOM Lab

Ref: 3623(Page-1/1)

Dated: 11-01-2021

Dated: 11-01-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

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	0.627	4	0.484	0.20	0.184	5.47	7.44	60370	65620	82060	89200	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

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

Maj Adnan Khalid ®

Dy Dir MTL.

Testing of Anchor Bolt - Const. of (U/G) External Elec. works, Pkg. -3, Sector –J-1,

DHA Ph.- IX, Prism – 9, - (M/S

FWO)

Client Reference: 408/241/E/09/1330

Dated: 11-01-2021

SOM Lab Ref: CED/SOM/3624(Page-1/1)

Dated: 11-01-2021

Test: Tension Test

Test Specification: ASTM-F -606

Sample Type: Y Bolt

Gauge Length: 45 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area (%)
	Original Diameter	Tested Diameter									
	mm	mm	mm ²	kN	kN	MPa	MPa	mm	mm	%	
1	12	8	50.27	23.0	29.7	457	590	15.0	45.0	33.3	47.4
2	12	8	50.27	19.7	26.7	391	531	14.0	45.0	31.1	45.6
3	12	8	50.27	22.0	27.0	437	533	15.0	45.0	33.3	49.2

Note:-

**Only Three Samples
Received and Tested**

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

s

Test Performed By: Dr. S. Asad Ali Gillani

Khalid Mahmood
Resident Engineer
NESPAK (Pvt) Ltd.
Resident Construction Supervision for Establishment of Dera Ghazi Khan
M/S Zahir Khan & Brothers (ZKB)

Client Reference: 4161/RE/SFMKB/DGK/153

Dated 24-12-2020

SOM Laboratory Reference: CED/SOM/3625(Page-1/1)

Dated 11-01-2021

Test: Tensile Strength, Elongation, Hardness Test, Water Absorption & Specific Gravity
Sample Type: PVC Water stops (Decora)

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	Sample Size(mm)	Ultimate Load(kN)	Tensile Strength (MPa)	% age Elongation
1	22.5 x 4.9	3.7	33.560	420.0

HARDNESS TEST (AS PER ASTM-D-2240)

S. No	Hardness (A Shore)
1	81.33

Water Absorption (AS PER ASTM-D-570)

S. No	Remarks
1	No absorption

SPECIFIC GRAVITY (AS PER ASTM-D-792)

S. No	SPECIFIC GRAVITY
1	1.312`

