

I. H ZARRAR

Test Performed By:

Dr. /Engr.

Nauman Khurram

Engineering Design Bureau.(60M NTDC Tower at SR154, 132KV Grid Station,Kala Shah Kaku)

Client Reference: EDB/59

SOM Lab Ref:

242 (P-1/9)

Dated: 20-11-2024

Dated:

20-11-2024

Test: Tension Test

Test Specification:

ASTM-A706

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.542	16	15.80	201	196	77.70	109.70	387	397	546	560	27.5	200	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

I. H ZARRAR

Engineering Design Bureau.(75M NTDC Tower at SR603,132KV Grid Station,Shahkot)

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Client Reference: EDB/51

Dated: 20-11-2024

SOM Lab Ref:

242 (P-2/9)

Dated:

20-11-2024

Test: Tension Test

Test Specification:

ASTM-A706

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.488	16	15.55	201	190	84.50	110.70	420	445	551	583	17.5	200	8.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

I. H ZARRAR

Test Performed By:

Dr. /Engr.

Nauman Khurram

Engineering Design Bureau.(65M NTDC Tower at SR288,132KV Grid Station,Toba Tek Singh)

Client Reference: EDB/52

SOM Lab Ref:

242 (P-3/9)

Dated: 20-11-2024

Dated:

20-11-2024

Test: Tension Test

Test Specification:

ASTM-A706

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.502	16	15.60	201	191	76.50	118.20	381	401	588	619	27.5	200	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

I. H ZARRAR

Test Performed By: Dr. /Engr. Nauman Khurram

Engineering Design Bureau.(60M NTDC Tower at SR611,132KV Grid Station,GT Road Gujrat)

Client Reference: EDB/58

SOM Lab Ref: 242 (P-4/9)

Dated: 20-11-2024

Dated: 20-11-2024

Test: Tension Test

Test Specification: ASTM-A706

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.541	16	15.80	201	196	81.20	115.70	404	415	576	591	32.5	200	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

I. H ZARRAR

Test Performed By:

Dr. /Engr.

Nauman Khurram

Engineering Design Bureau.(90M NTDC Tower at SR159,132KV Grid Station,Jhang Rd Naya Lhr)

Client Reference: EDB/57

SOM Lab Ref:

242 (P-5/9)

Dated: 20-11-2024

Dated:

20-11-2024

Test: Tension Test

Test Specification:

ASTM-A706

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.541	16	15.80	201	196	81.20	115.70	404	415	576	591	32.5	200	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

I. H ZARRAR

Test Performed By:

Dr. /Engr.

Nauman Khurram

Engineering Design Bureau.(70M NTDC Tower at SR606,132KV Grid Station,Warburton)

Client Reference: EDB/53

SOM Lab Ref:

242 (P-6/9)

Dated: 20-11-2024

Dated:

20-11-2024

Test: Tension Test

Test Specification:

ASTM-A706

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.522	16	15.72	201	194	89.70	144.70	446	463	720	746	32.5	200	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

I. H ZARRAR

Test Performed By: Dr. /Engr. Nauman Khurram

Engg Design Bureau.(80M NTDC Tower at SR106,132KV Grid Station,Head Sadhnai Abdul Hakim)

Client Reference: EDB/54

SOM Lab Ref: 242 (P-7/9)

Dated: 20-11-2024

Dated: 20-11-2024

Test: Tension Test

Test Specification: ASTM-A706

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.525	16	15.72	201	194	88.00	126.00	438	454	627	650	37.5	200	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

I. H ZARRAR

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Engineering Design Bureau.(60M NTDC Tower at SR607,132KV Grid Station,Gojra Bypass)

Client Reference: EDB/56

SOM Lab Ref:

242 (P-8/9)

Dated: 20-11-2024

Dated:

20-11-2024

Test: Tension Test

Test Specification:

ASTM-A706

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.350	16	14.80	201	172	69.00	95.50	343	402	475	556	10.0	200	5.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

I. H ZARRAR

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Engg Design Bureau.(100M NTDC Tower at SR080,500KV Grid Station,Jumra Rd Gatti Faisalabad)

Client Reference: EDB/55

SOM Lab Ref:

242 (P-9/9)

Dated: 20-11-2024

Dated:

20-11-2024

Test: Tension Test

Test Specification:

ASTM-A706

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.480	16	15.51	201	189	87.50	129.50	435	463	644	686	15.0	200	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Test Performed by: .S. Asad Ali Gillani

M/S Noor UI Haq & Brothers

Quetta.

(EFAP Package-IV: Rehb/Const. of Nine (9) Flood Perennial Irrigation System and Three (3) Flood Protection Scheme in Distt Harnai)

Client Reference No.: NB/KH/11989

Dated: 18-11-2024

SOM Lab Ref: CED/SOM/244 (Page 1/1)

Dated: 20-11-2024

Sample Type: G.I Wire

Test Type: Hardness Test

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
1	G.I Wire	HR – 49.5– B

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

Li Wentao

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

CCECC-HCS JV.(Expansion of Terminal Building and Allied Facilities at AllAP, Lahore)

Client Reference: CCECCHCSJVIIAP2024-395

SOM Lab

Ref: 232 (Page-1/1)

Dated: 18-11-2024

Dated: 20-11-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Aziz 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	3.381	9	1.125	1.00	0.994	28.46	47.42	62770	63150	104590	105220	1.30	8.0	16.3	
2	3.374	9	1.124	1.00	0.992	29.46	47.20	64970	65500	104090	104930	1.40	8.0	17.5	
3	2.665	8	0.998	0.79	0.783	23.52	38.63	65650	66240	107860	108820	1.50	8.0	18.8	
4	2.673	8	1.000	0.79	0.786	23.39	38.45	65310	65650	107340	107890	1.30	8.0	16.3	
5	1.493	6	0.748	0.44	0.439	13.00	20.41	65150	65300	102290	102530	1.40	8.0	17.5	
6	1.506	6	0.751	0.44	0.443	12.95	20.80	64890	64450	104230	103530	1.50	8.0	18.8	
7	1.480	6	0.744	0.44	0.435	13.25	21.15	66430	67190	106020	107240	1.40	8.0	17.5	
8	1.478	6	0.743	0.44	0.434	12.64	20.49	63360	64240	102700	104120	1.40	8.0	17.5	
9	1.488	6	0.746	0.44	0.437	14.07	22.43	70510	71000	112410	113180	1.40	8.0	17.5	
10	1.482	6	0.745	0.44	0.436	13.15	21.78	65910	66520	109190	110190	1.30	8.0	16.3	

BEND TEST:

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

Li Wentao

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

CCECC-HCS JV.(Expansion of Terminal Building and Allied Facilities at AllAP, Lahore)

Client Reference: CCECCHCSJVIIAP2024-394

SOM Lab

Ref: 233 (Page-1/2)

Dated: 18-11-2024

Dated: 20-11-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Markhor 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	1.497	6	0.748	0.44	0.440	16.21	21.00	81240	81240	105260	105260	1.20	8.0	15.0	
2	1.452	6	0.737	0.44	0.427	15.65	20.54	78430	80820	102960	106090	1.40	8.0	17.5	
3	0.672	4	0.501	0.20	0.197	6.95	9.43	76660	77830	103980	105560	1.00	8.0	12.5	
4	0.668	4	0.500	0.20	0.196	6.34	8.99	69920	71350	99150	101170	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

Li Wentao

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

CCECC-HCS JV.(Expansion of Terminal Building and Allied Facilities at AllAP, Lahore)

Client Reference: CCECCHCSJVIIAP2024-400

SOM Lab

Ref: 233 (Page-2/2)

Dated: 20-11-2024

Dated: 20-11-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Markhor 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	2.642	8	0.994	0.79	0.776	26.40	38.28	73710	75040	106860	108790	1.20	8.0	15.0	
2	2.677	8	1.001	0.79	0.787	26.91	38.58	75130	75420	107710	108120	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Qamar Uz Zaman

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Aujla & Associates.(Education Complex Foundation Royal Palm City H/Scheme Gujranwala)

Client Reference: Nil

SOM Lab

Ref:

234 (Page-1/9)

Dated: 20-11-2024

Dated:

20-11-2024

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	0.667	4	0.500	0.20	0.196	7.10	9.04	78350	79950	99710	101740	1.20	8.0	15.0	
2	0.668	4	0.500	0.20	0.196	7.10	9.07	78350	79950	100050	102090	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Qamar Uz Zaman

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Aujla & Associates.(Education Complex Foundation Royal Palm City H/Scheme Gujranwala)

Client Reference: Nil

SOM Lab

Ref:

234 (Page-2/9)

Dated: 20-11-2024

Dated:

20-11-2024

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	1.485	6	0.745	0.44	0.436	17.84	21.83	89420	90240	109450	110450	1.10	8.0	13.8	
2	1.482	6	0.745	0.44	0.436	17.64	21.71	88400	89210	108830	109830	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	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

Qamar Uz Zaman

Test Performed By:

Dr. /Engr. Asad Ali Gillani

PM Aujla & Associates.(Education Complex Foundation Royal Palm City H/Scheme Gujranwala)

Client Reference: Nil

SOM Lab

Ref: 234 (Page-3/9)

Dated: 20-11-2024

Dated: 20-11-2024

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	2.680	8	1.002	0.79	0.788	29.48	37.84	82300	82510	105640	105900	1.40	8.0	17.5	
2	2.628	8	0.991	0.79	0.772	30.02	36.67	83810	85760	102360	104750	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Qamar Uz Zaman

Test Performed By:

Dr. /Engr. Asad Ali Gillani

PM Aujla & Associates.(Overhead No.1Foundation Block B Canal View H/Scheme Gujranwala Ph-II)

Client Reference: Nil

SOM Lab

Ref: 234 (Page-4/9)

Dated: 20-11-2024

Dated: 20-11-2024

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	2.586	8	0.984	0.79	0.760	27.83	33.44	77690	80760	93340	97030	1.50	8.0	18.8	
2	2.632	8	0.992	0.79	0.773	28.85	34.58	80540	82310	96530	98650	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Qamar Uz Zaman

Test Performed By:

Dr. /Engr. Asad Ali Gillani

PM Aujla & Associates.(Overhead No.1Foundation Block B Canal View H/Scheme Gujranwala Ph-II)

Client Reference: Nil

SOM Lab

Ref: 234 (Page-5/9)

Dated: 20-11-2024

Dated: 20-11-2024

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	1.482	6	0.745	0.44	0.436	16.82	21.20	84310	85080	106280	107250	1.40	8.0	17.5	
2	1.489	6	0.747	0.44	0.438	17.64	21.81	88400	88800	109340	109840	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 6	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

Qamar Uz Zaman

Test Performed By:

Dr. /Engr. Asad Ali Gillani

PM Aujla & Associates.(Overhead No.1Foundation Block B Canal View H/Scheme Gujranwala Ph-II)

Client Reference: Nil

SOM Lab

Ref: 234 (Page-6/9)

Dated: 20-11-2024

Dated: 20-11-2024

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	0.662	4	0.498	0.20	0.195	7.85	9.19	86560	88780	101390	103990	1.00	8.0	12.5	
2	0.660	4	0.497	0.20	0.194	7.10	8.46	78350	80770	93300	96190	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Qamar Uz Zaman

Test Performed By:

Dr. /Engr. Asad Ali Gillani

PM Aujla & Associates.(Overhead No.2 Foundation Block C Canal View H/Scheme Gujranwala Ph-II)

Client Reference: Nil

SOM Lab

Ref: 234 (Page-7/9)

Dated: 20-11-2024

Dated: 20-11-2024

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	2.645	8	0.995	0.79	0.777	30.38	37.21	84810	86230	103870	105610	1.20	8.0	15.0	
2	2.638	8	0.993	0.79	0.775	31.80	37.84	88790	90510	105640	107680	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Qamar Uz Zaman

Test Performed By:

Dr. /Engr. Asad Ali Gillani

PM Aujla & Associates.(Overhead No.2 Foundation Block C Canal View H/Scheme Gujranwala Ph-II)

Client Reference: Nil

SOM Lab

Ref: 234 (Page-8/9)

Dated: 20-11-2024

Dated: 20-11-2024

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	1.469	6	0.742	0.44	0.432	16.62	21.41	83290	84830	107300	109290	1.30	8.0	16.3	
2	1.487	6	0.746	0.44	0.437	17.64	21.78	88400	89000	109190	109940	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 6	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

Qamar Uz Zaman

Test Performed By:

Dr. /Engr. Asad Ali Gillani

PM Aujla & Associates.(Overhead No.2 Foundation Block C Canal View H/Scheme Gujranwala Ph-II)

Client Reference: Nil

SOM Lab

Ref: 234 (Page-9/9)

Dated: 20-11-2024

Dated: 20-11-2024

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	0.659	4	0.497	0.20	0.194	6.95	9.04	76660	79040	99710	102790	1.20	8.0	15.0	
2	0.653	4	0.494	0.20	0.192	6.85	8.99	75540	78690	99150	103280	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 4s	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

Farhad Ali Khan

Test Performed By:

Dr. /Engr. Yousaf

Sr.Engr (C) WASO PAEC.Chashma.(Const Of Mock-Up Hall Near Chashma)

Client Reference: WASO-CMD-LOI-029/1530

SOM Lab

Ref: 235 (Page-1/1)

Dated: 18-11-2024

Dated: 20-11-2024

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	2.670	8	1.000	0.79	0.785	27.49	33.51	76750	77240	93540	94140	1.40	8.0	17.5	
2	2.632	8	0.992	0.79	0.773	29.87	35.52	83380	85220	99180	101360	1.40	8.0	17.5	
3	1.489	6	0.747	0.44	0.438	16.53	21.00	82880	83260	105260	105740	1.20	8.0	15.0	
4	1.478	6	0.743	0.44	0.434	16.21	20.56	81240	82370	103060	104480	1.20	8.0	15.0	
5	0.597	4	0.472	0.20	0.175	6.49	8.28	71610	81840	91280	104320	1.10	8.0	13.8	
6	0.581	4	0.467	0.20	0.171	6.27	8.05	69130	80860	88800	103860	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Tariq Aleem (PE QAD.DTS), Zair Ullah (Sr. Tech S & SD-DTS)

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

Khurram Tariq, RE

Test Performed By: Dr. /Engr. Nauman Khurram

NESPAK.(Resolving Traffic Congestion Issues at Crossing of 9Th Avenue and Jinnah Rd Avenue Isb)

Client Reference: SA-527/103/KTSN/01/11

SOM Lab

Ref: 236 (Page-1/1)

Dated: 11-11-2024

Dated: 20-11-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Pak 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	24.94	33.74	69640	71820	94200	97150	1.40	8.0	17.5	
2	2.616	8	0.990	0.79	0.769	25.45	34.15	71060	73000	95340	97940	1.20	8.0	15.0	
3	1.512	6	0.752	0.44	0.444	14.48	19.90	72560	71900	99740	98840	1.00	8.0	12.5	
4	1.505	6	0.750	0.44	0.442	14.60	19.98	73170	72840	100150	99690	1.20	8.0	15.0	
5	0.656	4	0.496	0.20	0.193	6.60	8.63	72730	75370	95210	98660	1.10	8.0	13.8	
6	0.659	4	0.497	0.20	0.194	6.44	8.48	71040	73240	93530	96420	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

Fast Cable

Test Performed By:

Dr. /Engr.

Nauman Khurram

DHA Lahore.(Hall 4 at Unit 2 Fast Cables Ltd " Double Tee Building" Lahore)

Client Reference: Nil

SOM Lab

Ref:

237 (Page-1/1)

Dated: 20-11-2024

Dated:

20-11-2024

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	2.713	8	1.007	0.79	0.797	24.31	34.35	67870	67280	95900	95060	1.60	8.0	20.0	
2	2.702	8	1.005	0.79	0.794	23.82	34.51	66510	66170	96330	95850	1.40	8.0	17.5	
3	1.467	6	0.741	0.44	0.431	13.00	19.32	65150	66510	96830	98850	1.50	8.0	18.8	
4	1.452	6	0.737	0.44	0.427	13.17	19.39	66020	68030	97180	100140	1.50	8.0	18.8	
5	1.031	5	0.621	0.31	0.303	10.42	14.14	74120	75830	100590	102910	1.20	8.0	15.0	
6	1.031	5	0.621	0.31	0.303	10.62	14.24	75570	77320	101310	103650	1.20	8.0	15.0	
7	0.666	4	0.500	0.20	0.196	6.34	8.51	69920	71350	93860	95780	1.20	8.0	15.0	
8	0.665	4	0.498	0.20	0.195	6.22	8.36	68570	70330	92180	94540	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Engr. Muhammad Moize

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

ARE Reman Habib Consultants Pvt Ltd.(GCT Bahawalpur, GTTI Bahawalpur)

Client Reference: COE/RHC/MTL/24/003

SOM Lab

Ref:

238 (Page-1/1)

Dated: 18-11-2024

Dated:

20-11-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Hunza 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	2.657	8	0.997	0.79	0.781	26.91	36.21	75130	76000	101080	102250	1.50	8.0	18.8	
2	2.657	8	0.997	0.79	0.781	25.50	35.12	71200	72020	98040	99170	1.30	8.0	16.3	
3	1.498	6	0.748	0.44	0.440	14.95	20.05	74960	74960	100500	100500	1.40	8.0	17.5	
4	1.498	6	0.748	0.44	0.440	15.06	20.15	75470	75470	101020	101020	1.50	8.0	18.8	
5	0.665	4	0.498	0.20	0.195	6.88	9.19	75880	77820	101390	103990	1.10	8.0	13.8	
6	0.665	4	0.498	0.20	0.195	6.85	9.19	75540	77480	101390	103990	1.20	8.0	15.0	
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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

Muhammad Imran Snr PM
IDAP Lahore.(Project Site MIR # NSICTR-C/STR/CIVIL/04)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: PD(NSICTR)/PACKAGE-C/2024/20704

SOM Lab

Ref: 240 (Page-1/1)

Dated: 14-10-2024

Dated: 20-11-2024

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	1.495	6	0.748	0.44	0.439	16.69	18.98	83640	83830	95140	95360	1.20	8.0	15.0	SJ-37/38
2	1.498	6	0.748	0.44	0.440	16.72	19.01	83800	83800	95290	95290	1.20	8.0	15.0	SJ-37/38
3	0.666	4	0.500	0.20	0.196	7.21	8.51	79470	81100	93860	95780	1.20	8.0	15.0	SJ-35/36
4	0.666	4	0.500	0.20	0.196	7.14	8.41	78690	80290	92740	94630	1.10	8.0	13.8	SJ-35/36
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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

Muhammad Hassan Khan,RE **Test Performed By:** Dr. /Engr. Nauman Khurram
 NESPAK Lahore.(Const of Carpet/PCC/Tuff Tile and Drainage Facilities in UC No.190,Hudyara,Lhr)

Client Reference: 3772/103/MHK/ADP/Hudyara/15
Dated: 18-11-2024

SOM Lab
Ref: 243(Page-1/1)
Dated: 20-11-2024

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (ZSR 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	0.669	4	0.501	0.20	0.197	6.73	10.01	74190	75320	110390	112070	1.30	8.0	16.3	
2	0.669	4	0.501	0.20	0.197	6.32	9.45	69700	70760	104200	105790	1.40	8.0	17.5	
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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

Zahid Mughal
C/O M/S Amanah Noor Residence Wapda Town, Lahore.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 245 (Page-1/1)

Dated: 20-11-2024

Dated: 20-11-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

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	0.662	4	0.498	0.20	0.195	6.98	8.77	77000	78980	96670	99150	1.20	8.0	15.0	
2	0.660	4	0.497	0.20	0.194	6.90	8.58	76100	78460	94650	97580	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

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

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