

Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Executive Engineer Highway Division Narowal

(Restoration / Improvement of Sharkargarh bypass from Zafarwal - Shakargrah Road to Bein Bridge via Narowal Shakargarh Road (Length = 9.00 km) in District Narowal.)

Reference # CED/TFL <u>6260 (Dr. Ali Ahmed)</u> Reference of the request letter # 2023/DB

Tension Test Report (Page -1/1)

Date of Test 03-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.377	3/8	0.376	0.11	0.111	3740	4860	75000	74360	97400	96700	1.50	18.8	
2	0.376	3/8	0.375	0.11	0.110	3490	4810	70000	69690	96400	96100	1.30	16.3	
-	-	ı	-	1	-	ı	-	ı	-	-	-	-	-	
-	1	1	-	1	-	ı	-	1	-	-	-	-	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	ı	-	1	-	ı	-	ı	-	-	-	-	ı	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1		
							Bend T	est						

#3 Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 31-12-2024

Dated: 10-12-2024

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Assistant Executive Engineer-I Central Civil Division No. I Pak PWD, Lahore

(Construction of Additional School Boundary Wall and Class Rooms at Bhagiana Khurd Primary School District Kasur.)

Reference # CED/TFL 6261 (Dr. Ali Ahmed)

Reference of the request letter # AEE-I/CCD-I/LHR/207

Tension Test Report (Page -1/1)

Date of Test 03-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ize ch)		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
<i>S</i> 2	(lbs/ft)	Nominal	Actual	Nominal	0.11 0.106		(kg)	Nominal	Actual	Nominal	Actual	(inch)	∃%	R
1	0.362	3/8	0.368	0.11	0.106	3920	4940	78600	81150	99000	102300	1.10	13.8	
2	0.363	3/8	0.368	0.11	0.107	3890	4910	78000	80400	98400	101500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est						
3/8	" Dia Ba	ır Bend	Test Th	nrough	180° is \$	Satisfacto	ry							

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 31-12-2024

Dated: 15-05-2024

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer Mascon Associates (Pvt) Ltd. Jv HA Consulting Construction of Autism School, Lahore.

Reference # CED/TFL <u>6268 (Dr. Ali Ahmed)</u>

Reference of the request letter # HAC-MAC/24/ECAS/Lab/003

Dated: 01-01-2025

Dated: 24-12-2024

Tension Test Report (Page -1/2)

Date of Test 03-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.367	3	0.371	0.11	0.108	4180	5370	83800	85380	107600	109700	1.00	12.5	u
2	0.370	3	0.372	0.11	0.109	4000	5150	80200	81110	103200	104500	1.00	12.5	Kamran Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ka
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample 1	or bend	test			
		Bend Test												
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ectory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer Mascon Associates (Pvt) Ltd. Jv HA Consulting Construction of Autism School, Lahore.

Reference # CED/TFL <u>6268 (Dr. Ali Ahmed)</u>

Reference of the request letter # HAC-MAC/24/ECAS/Lab/002

Dated: 01-01-2025

Dated: 16-12-2024

Tension Test Report (Page -2/2)

Date of Test 03-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.375	3	0.375	0.11	0.110	3410	5150	68400	68140	103200	102900	1.30	16.3	el
2	0.372	3	0.373	0.11	0.109	3410	5150	68400	68810	103200	104000	1.40	17.5	Aziz Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Azi
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend 1	test			1
							Bend T	est est						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer NESPAK

Relocation and Enhancement of the Flag Pole at Wagha Border, Lahore.

Reference # CED/TFL <u>6285 (Dr. Ali Ahmed)</u>

Reference of the request letter # 4749/031/YK/01/116

Dated: 02-01-2025

Dated: 02-01-2025

Tension Test Report (Page -1/1)

Date of Test 03-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(1J/sqI)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	T %	Re
1	5.199	11	1.395	1.56	1.528	47600	70200	67300	68650	99200	101300	1.60	20.0	ran el
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Kamran Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	1	-	-	1	-	1	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	_	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Note: only one sample for tensile and one sample for bend test									est	1	I	
							Bend T	<u>'est</u>						
#11	Bar Be	nd Test	Throug	gh 180°	is Satist	factory								

Witness by M Yasir Kiani (RE NESPAK)

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Head Construction Site
ABL – UML P-199 & 200
Allied Bank
Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL 6287 (Dr. Asad Ali)

Reference of the request letter # ABL-UML-AMC-QAQC-102

Dated: 03-01-2025

Dated: 02-01-2025

Tension Test Report (Page -1/1)

Date of Test 03-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		ee Stress si)	Elongation	% Elongation	Remarks
8	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.349	3	0.361	0.11	0.103	3690	4640	74000	79280	93000	99700	1.00	12.5	e]
2	0.353	3	0.364	0.11	0.104	3620	4610	72600	76800	92400	97900	1.00	12.5	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	_	-	
-	-	1	-	ı	-	1	-	1	-	-	-	-	1	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
щ2	Dan D	1 Tant 1	Γl 1	. 1000	- Catiaf		Bend T	est						
#3	Bar Ben	d Test	I'hrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,

Deputy General Manager Works Habib Rafiq Engineering (Pvt.) Limited 101 Tower, Lahore

Reference # CED/TFL <u>6276 (Dr. M Rizwan Riaz)</u>

Reference of the request letter # HRLE/SKG/2025/Kamran/6.180/185

Dated: 02-01-2025

Dated: 02-01-2025

Tension Test Report (Page -1/1)

Date of Test 06-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.362	10	9.35	0.12	0.106	3540	4810	65036	73290	88368	99600	1.30	16.3	⊑ _
2	0.364	10	9.37	0.12	0.107	3570	4840	65587	73580	88919	99800	1.60	20.0	Kamran Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	3 0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1	I	
		Note: only two samples for tensile and one sample for bend tes Bend Test												
10r	nm Dia 1	Bar Bei	nd Test	Throug	h 180° i	s Satisfac		CSI						

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

QAQC Manager Zameen Dvelopment Zameen Phoenix

Construction of Phoenix Project by Zameen Development, Lahore.

Reference # CED/TFL 6277 (Dr. M Rizwan Riaz)

Reference of the request letter # ZD/QAQC/Phoenix/05

Dated: 02-01-2025

Dated: 02-01-2025

Tension Test Report (Page -1/1)

Date of Test 06-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Heat # JN-06-07

Sr. No.	Weight	Dian Si			rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	∃%	R
1	0.366	3	0.370	0.11	0.108	3570	4940	71600	73080	99000	101200	1.30	16.3	
2	0.366	3	0.370	0.11	0.108	3590	4940	72000	73470	99000	101100	1.10	13.8	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	1	ı	ı	-	-	-	•	-	-	-	-	1	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	ı		
#3	Bar Ben	d Test T	Through	180° i	Satisfa	etory	Bend T	est						
#3	Dai Dell	u rest	i mougi	1 100 1	Sausta	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,

Sr. Civil Engineer Style Textile (Pvt) Ltd. Construction of Thermal Oil Heater at SAP.

Reference # CED/TFL 6278 (Dr. M Rizwan Riaz)

Reference of the request letter # Nil

Tension Test Report (Page -1/1)

Date of Test 06-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight	Si	neter/ ze m)		rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	∃%	R
1	0.416	10	10.03	0.12	0.122	5500	6270	101044	99070	115190	113000	1.00	12.5	
2	0.416	10	10.03	0.12	0.122	5400	6220	99207	97230	114272	112000	1.00	12.5	
3	0.424	10	10.11	0.12	0.125	5370	6220	98656	95050	114272	110100	1.00	12.5	
4	0.414	10	9.99	0.12	0.122	5370	6220	98656	97350	114272	112800	1.00	12.5	
-	1	-	-	1	-	-	-	-	ı	-	-	-	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	te: only	y four s	amples f	or tensile	and two	samples	for bend	test	1		
							Bend T	est						
10	mm Dia	Bar Be	nd Test	Throug	<u>sh 180° i</u>	is Satisfac	ctory							

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 02-01-2025

Dated: 18-12-2024

Note:

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

10mm Dia Bar Bend Test Through 180° is Satisfactory



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To

Resident Engineer

NESPAK

Establishment of Labour Colony at Quaid-E-Azam Business Park, M2 – Motorway, Ditt. Sheikhupura.

Reference # CED/TFL <u>6280 (Dr. Usman Akmal)</u> Reference of the request letter # 3844/311/RE/015 Dated: 02-01-2025 Dated: 31-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	R
1	0.365	3	0.369	0.11	0.107	3620	5220	72600	74440	104600	107400	1.00	12.5	teel
2	0.369	3	0.371	0.11	0.108	3570	5220	71600	72620	104600	106200	1.00	12.5	SJ Steel
-	-	-	-	1	-	1	-	-	-	-	-	-	-	
-	-	-	-	ı	-	ı	-	-	-	-	-	-	-	
-	-	-	-	1	-	1	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							Bend T	est						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,

Sub Divisional Officer **Buildings Sub Division** Jhelum

"Construction of 08 Class Rooms 28x18 with Verandah 8 Wide at Govt. Graduate College G.T. Road Jhelum."

Reference # CED/TFL 6281 (Dr. M Rizwan Riaz)

Reference of the request letter # 01/J

Dated: 01-01-2025

Tension Test Report (Page -1/1)

Date of Test 06-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(1J/sqI)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.367	3/8	0.370	0.11	0.108	2870	3920	57600	58700	78600	80200	1.30	16.3	
2	0.365	3/8	0.369	0.11	0.107	2850	3890	57200	58600	78000	80000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	1	1	-	1	-	ı	-	-	-	-	-	-	-	
-	1	1	-	1	-	ı	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Note: only t				amples f	or tensile	and one	sample f	or bend	test	1		
	"D' D				1000: 4		Bend T	est						

3/8" Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires **UET Lahore, Pakistan.**

Dated: 02-01-2025

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- Sealed sample / Unsealed sample / Marked sample/Signed Samples

LAHORE -

STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,

CEO AMCO

Construction of Avenue -200 (8 floor highrise building) Johar Town, Lahore.

Reference # CED/TFL 6282 (Dr. M Rizwan Riaz)

Reference of the request letter # Nil

Dated: 02-01-2025 Dated: 02-01-2025

Tension Test Report (Page -1/1)

Date of Test 06-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.376	3	0.375	0.11	0.110	4100	5930	82200	81870	118900	118500	1.20	15.0	
2	0.370	3	0.372	0.11	0.109	3940	5830	79000	79850	116900	118200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample 1	for bend	test	1		
							Bend T	est						
#3	Bar Ber	d Test	Through	h 180° i	s Satisfa	actory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Assistant Director (QCD) WASA, LDA, Lahore. (M/s Ali Rehman RCC Pipe Factory.)

Reference # CED/TFL <u>6283 (Dr. M Rizwan Riaz)</u>

Reference of the request letter # QCD/2715

Dated: 02-01-2025

Dated: 30-12-2024

Tension Test Report (Page -1/1)

Date of Test 06-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM A615

Sr. No.	Weight	Diameter/		Diameter/ Size Area (in²)			Yield load Breaking Load		Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re	
1	0.386	3	0.380	0.11	0.113	3160	4250	63400	61390	85200	82600	1.80	22.5		
•	-	ı	ı	ı	-	-	-	-	-	-	-	-	-		
1	-	1	ı	1	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	ı	ı	1	-	-	-	-	-	-	-	-	-		
-		ı	ı	1	-	-	-	-	-	-	-	-	-		
Note: only one sample for tensile and one sample for bend test															
	Bend Test														
#3	#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer NESPAK

Expansion of Joint Chek Post Wagha, Lahore.

Reference # CED/TFL <u>6284 (Dr. M Rizwan Riaz)</u> Reference of the request letter # 4749/031/YK/01/117

Tension Test Report (Page -1/1)

Date of Test 06-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.380	3	0.377	0.11	0.112	3570	5010	71600	70500	100400	99000	1.30	16.3	e z.
2	0.378	3	0.376	0.11	0.111	3330	4790	66800	65990	96000	95000	1.30	16.3	Aziz Steel
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	_	_	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test #2 Pag Paged Test Through 1909 is Satisfactory														
#3	#3 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 02-01-2025

Dated: 02-01-2025

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

Ref: CED/TFL/01/6286 Dated: 03-01-2025

Dated of Test: 06-01-2025

To

Resident Engineer NESPAK Remodeling and Upgradation of Ada Nullah & Walton Road (Package-I)

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/01/6286) (Page -1/1)

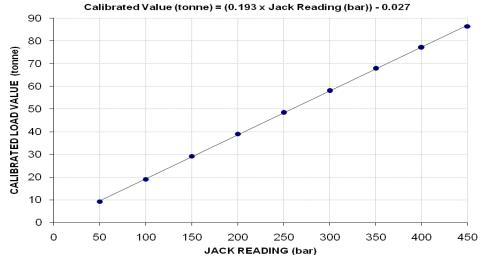
Reference to your Letter No. 4702/13/HSR/09/87, dated: 18/11/2024 on the subject cited above. One Hydraulic Jack (Jack No. AES-J100, Gauge No. AES-J100) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar) Calibrated Range : Zero - 450 (bar)

Hydraulic Jack Read (bar)	50	100	150	200	250	300	350	400	450	
Calibrated Load	(kg)	9200	19100	29200	39000	48400	58000	67800	77100	86500
Cambrated Load	(tonne)	9.20	19.10	29.20	39.00	48.40	58.00	67.80	77.10	86.50
Calibrated Pressure	47	98	150	200	249	298	348	396	445	

The Ram Area of Jack = 190.80 cm^2

Calibration Curve For Jack No. AES-J100



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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer NESPAK – TurkPak Jv Establishment of 200 Bedded Mother and Child Hospital Nursing College at District Bahawalnagar.

Reference # CED/TFL <u>6296 (Dr. Irfan ul Hussan)</u>

Reference of the request letter # 4460/13/MIA/04/439

Dated: 06-01-2025

Dated: 04-01-2025

Tension Test Report (Page -1/1)

Date of Test 06-01-2025 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
3 2	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	R
1	0.377	3	0.375	0.11	0.111	3470	5050	69600	69080	101200	100600	1.00	12.5	I. el
2	0.378	3	0.376	0.11	0.111	3430	5010	68800	68020	100400	99400	0.90	11.3	SGI Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	1	-	1	-	-	-	1	-	-	-	-	-	
-	-	1	-	1	-	-	-	1	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
							Bend T	est						
#3	#3 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

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