STRUCTURAL ENGINEERING DIVISION

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

Ref: CED/TFL/07/5373 Dated: 22-07-2024

Dated of Test: 24-07-2024

To

Resident Engineer
NESPAK
Construction of Road Connecting Sub Division to Bannu Circular Road.

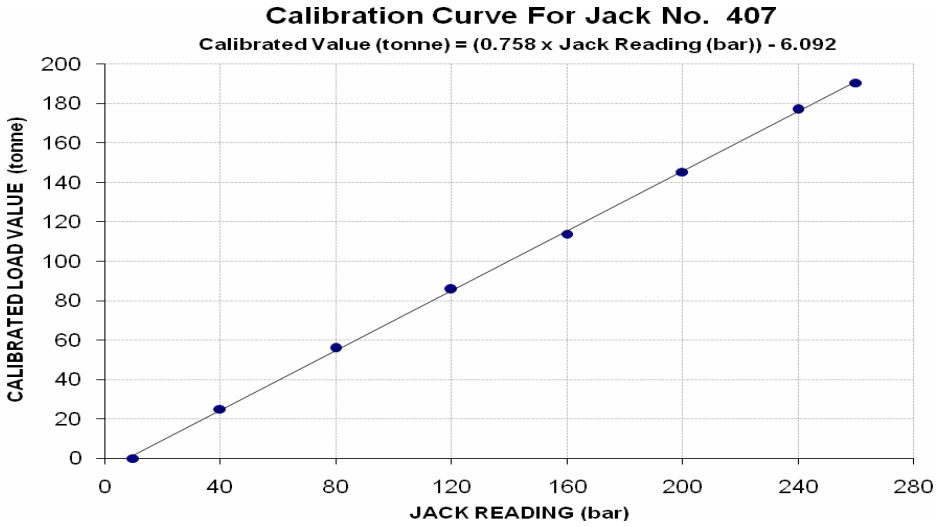
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/5373)** (Page -1/2)

Reference to your Letter No. 4040/021/SI/08/0680, dated: 10/07/2024 on the subject cited above. One Hydraulic Jack (Jack No. 407, Gauge No. SF-407) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)		**10**	**40**	**80**	**120**	**160**	**200**	**240**	**260**
Calibrated Load	**(kg)**	**0**	**25000**	**55800**	**85800**	**113800**	**145300**	**176900**	**190400**
	(tonne)	**0**	**25.00**	**55.80**	**85.80**	**113.80**	**145.30**	**176.90**	**190.40**
Calibrated Pressure (bar)		**0**	**33.39**	**74.52**	**114.58**	**151.98**	**194.04**	**236.24**	**254.27**

The Ram Area of Jack = 734.35 cm^2



I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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

Ref: CED/TFL/07/5373 Dated: 22-07-2024

Dated of Test: 24-07-2024

To

Resident Engineer
NESPAK
Construction of Road Connecting Sub Division to Bannu Circular Road.

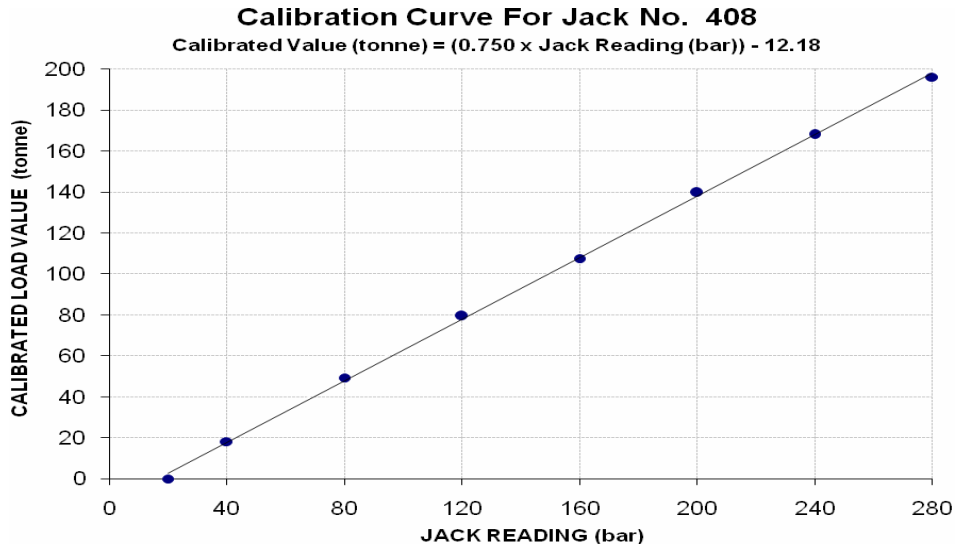
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/5373)** (Page -2/2)

Reference to your Letter No. 4040/021/SI/08/0680, dated: 10/07/2024 on the subject cited above. One Hydraulic Jack (Jack No. 408, Gauge No. SF-408) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 280 (bar)

Hydraulic Jack Reading (bar)		**20**	**40**	**80**	**120**	**160**	**200**	**240**	**260**
Calibrated Load	**(kg)**	**0**	**18200**	**49400**	**79400**	**107600**	**139600**	**168000**	**196000**
	(tonne)	**0**	**18.20**	**49.40**	**79.40**	**107.60**	**139.60**	**168.00**	**196.00**
Calibrated Pressure (bar)		**0**	**24.31**	**65.97**	**106.04**	**143.70**	**186.43**	**224.36**	**261.75**

The Ram Area of Jack = 734.35 cm^2



I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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,

M/S Bakhtar Amin Memorial Trust Hospital
Multan

Reference # CED/TFL **5375** (Dr. Safeer Abbas) Dated: 22-07-2024
Reference of the request letter # Nil Dated: 22-05-2024

Tension Test Report (Page -1/1)

Date of Test 24-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3	0.373	0.11	0.109	3280	4940	65800	66310	99000	99900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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

Ref: CED/TFL/07/5379 Dated: 22-07-2024

Dated of Test: 24-07-2024

To

Resident Engineer
NESPAK
Development of a Controlled Access Corridor Facility from Niazi Interchange to Babu Sabu Interchange, Lahore, Package – II (km 3+650 to km 7+300)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]** (Page # 1/1)

Reference to your letter No. 3772/103/NBI(P-II)/MWA/04/436, dated 15.07.2024 on the subject cited above. One R.C.C. Pipe as received by us has been tested.

The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	24	7.75	7.09	30.16	23.90	3.13	9470	14800	1479	2311

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

STRUCTURAL ENGINEERING DIVISION

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

To,

Manager Civil
Shangrila Foods (Private) Limited
Karachi

Reference # CED/TFL **5380** (Dr. Safeer Abbas) Dated: 23-07-2024
Reference of the request letter # Nil Dated: 23-07-2024

Tension Test Report (Page -1/1)

Date of Test 24-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.365	3	0.370	0.11	0.107	3570	4760	71600	73260	95400	97700	1.20	15.0	
2	0.361	3	0.368	0.11	0.106	3540	4690	71000	73530	94000	97500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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,

Development Engineer
University of The Punjab
Construction of Three Class Rooms of Institute of Social & Cultural Science at QAC.

Reference # CED/TFL **5381** (Dr. Asad Ali) Dated: 23-07-2024
Reference of the request letter # D-3813-DE Dated: 09-07-2024

Tension Test Report (Page -1/1)

Date of Test 24-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.379	3	0.377	0.11	0.111	3670	5240	73600	72560	105000	103600	1.20	15.0	
2	0.381	3	0.378	0.11	0.112	3670	5250	73600	72200	105200	103300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
1- You can See your reports On Internet in the following web site
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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,

Executive Engineer
Building Division
Kasur
(Construction of 07-Nos. New Class Rooms in Schools (FCDO) (PESP-II) one at Govt. Primary School Bunga Sardar Kahan Singh (01-No. C/R) Tehsil Pattoki District Kasur.)

Reference # CED/TFL **5382** (Dr. Safeer Abbas) Dated: 23-07-2024
Reference of the request letter # 3750/D Dated: 08-07-2024

Tension Test Report (Page -1/2)

Date of Test 24-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.379	3/8	0.377	0.11	0.111	3570	4910	71600	70590	98400	97100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
1- You can See your reports On Internet in the following web site
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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,

Executive Engineer
Building Division
Kasur
(Construction of 07-Nos. New Class Rooms in Schools (FCDO) (PESP-II) one at Govt. Primary School Pial Kalan No. 2 (01-No. C/R) Tehsil & District Kasur.)

Reference # CED/TFL **5382** (Dr. Safeer Abbas) Dated: 23-07-2024
Reference of the request letter # 3752/D Dated: 08-07-2024

Tension Test Report (Page -2/2)

Date of Test 24-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.380	3/8	0.377	0.11	0.112	3570	4940	71600	70390	99000	97500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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,

ARE / QC
Master Consulting Engineers (Pvt) Ltd.
Construction of 7-Story Residential Block Having Minimum 100 Rooms with Attached Bathroom Facilities at Gurdwara Janam Asthan, Nankana Sahib.

Reference # CED/TFL **5383** (Dr. Safeer Abbas) Dated: 23-07-2024
Reference of the request letter # NKN/MCE/SteelTest/01 Dated: 20-05-2024

Tension Test Report (Page -1/1)

Date of Test 24-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.107	3210	4710	64400	65840	94400	96600	1.10	13.8	
2	0.372	3	0.373	0.11	0.109	3380	4810	67800	68180	96400	97100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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
Indus Associate Consultant (Jv)
Khanozai.
"Dualization of Zhob – Kuchlak Section of N-50 Nasai to Khanozai (km: 180+00 – 254+00)"

Reference # CED/TFL **5384** (Dr. Safeer Abbas) Dated: 23-07-2024
Reference of the request letter # RE/Pkg-IV/N-50/IAC/2024/564 Dated: 22-07-2024

Tension Test Report (Page -1/1)

Date of Test 24-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.243	32	32.01	1.25	1.247	37400	53800	65962	66090	94886	95100	1.60	20.0	
2	4.253	32	32.04	1.25	1.250	39600	54000	69842	69820	95239	95300	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,

Deputy Team Leader / Resident Engineer / Project Manager
Techno - Consultant International (Pvt) Ltd.
"Procurement of Civil Works, North Tehsil Kallar Kahar (Villages: Jhamra and Vasnal)"

Reference # CED/TFL **5386** (Dr. Asad Ali) Dated: 24-07-2024
Reference of the request letter # TCI/PRSWSSP-NORTH/PHASE-V/KLK-04/016
Dated: 13-07-2024

Tension Test Report (Page -1/1)

Date of Test 24-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.422	3	0.397	0.11	0.124	3970	6090	79600	70550	122100	108300	0.90	11.3	Prime Supreme
2	0.377	3	0.376	0.11	0.111	4020	5610	80600	80010	112500	111700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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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,

Senior Project Manager
IDAP, Site Office
NSIC Sargodha
"Establishment of Nawaz Sharif Institute of Cardiology, Sargodha."

Reference # CED/TFL **5387** (Dr. Asad Ali) Dated: 24-07-2024
Reference of the request letter #SPM(NSIC)/IDAP/2024/19552 Dated: 13-07-2024

Tension Test Report (Page -1/1)

Date of Test 24-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.386	3	0.380	0.11	0.114	3430	5270	68800	66570	105600	102300	1.20	15.0	Prime Supreme
2	0.382	3	0.378	0.11	0.112	3640	5400	73000	71430	108200	106000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
1- You can See your reports On Internet in the following web site
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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 – TURPAK jv
Reconstruction of Old P&D Building, Lahore.

Reference # CED/TFL **5388** (Dr. Asad Ali) Dated: 24-07-2024
Reference of the request letter # 4647/P&D/13/09/AZL/40 Dated: 23-07-2024

Tension Test Report (Page -1/1)

Date of Test 24-07-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.376	3	0.375	0.11	0.110	3430	5070	68800	68430	101600	101200	1.10	13.8	Aziz Steel
2	0.386	3	0.380	0.11	0.114	3490	5220	70000	67740	104600	101400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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