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/10/5764 Dated: 02-10-2024

Dated of Test: 07-10-2024

To

Resident Engineer
NESPAK (RRR)
Construction of Rawalpindi Ring Road (RRR)(38.3 km) Main Carriageway (MCW) from Banth (N-5) to Thalian (M-2) (Group-1)

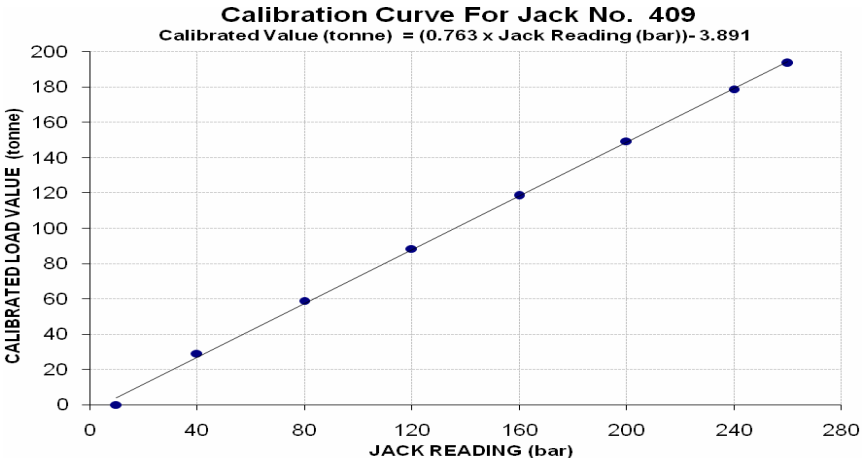
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/10/5764)** (Page -1/2)

Reference to your Letter No. 4713/RRR/IUK/24/151, dated: 27/09/2024 on the subject cited above. One Hydraulic Jack (Jack No. 409, Gauge No. SF-409) 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**	**29000**	**58800**	**88400**	**118400**	**149400**	**178800**	**193600**
	(tonne)	**0**	**29.00**	**58.80**	**88.40**	**118.40**	**149.40**	**178.80**	**193.60**
Calibrated Pressure (bar)		**0**	**39**	**79**	**118**	**158**	**200**	**239**	**259**

The Ram Area of Jack = 733.975 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/10/5764 Dated: 02-10-2024

Dated of Test: 07-10-2024

To

Resident Engineer
NESPAK (RRR)
Construction of Rawalpindi Ring Road (RRR)(38.3 km) Main Carriageway (MCW) from Banth (N-5) to Thalian (M-2) (Group-1)

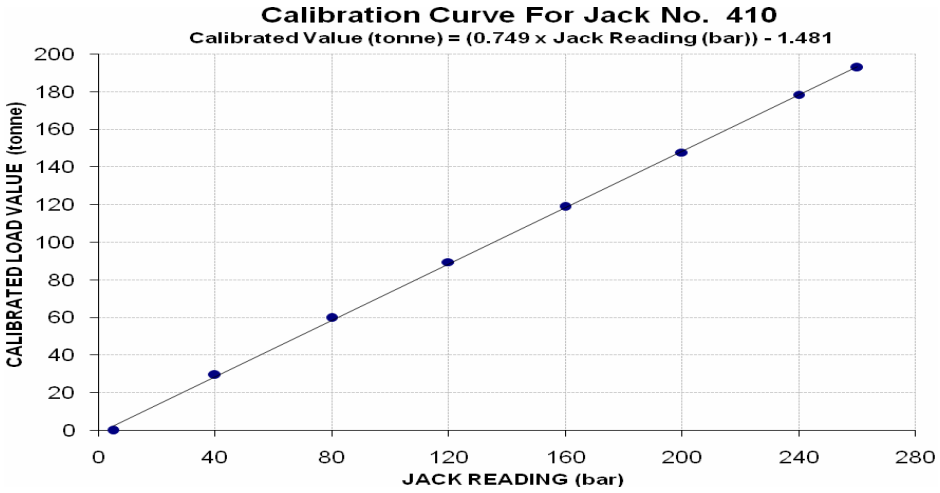
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/10/5764)** (Page -2/2)

Reference to your Letter No. 4713/RRR/IUK/24/151, dated: 27/09/2024 on the subject cited above. One Hydraulic Jack (Jack No. 410, Gauge No. SF-410) 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)		**5**	**40**	**80**	**120**	**160**	**200**	**240**	**260**
Calibrated Load	**(kg)**	**0**	**29400**	**59800**	**89600**	**118800**	**147800**	**178400**	**192800**
	(tonne)	**0**	**29.40**	**59.80**	**89.60**	**118.80**	**147.80**	**178.40**	**192.80**
Calibrated Pressure (bar)		**0**	**39**	**80**	**120**	**159**	**197**	**238**	**258**

The Ram Area of Jack = 733.975 cm^2



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,

M/S MA Engineering Services
Lahore
(Engro Enfrashare B2S Towers)

Reference # CED/TFL **5767** (Dr. M Rizwan Riaz) Dated: 03-10-2024
Reference of the request letter # MA/UET/LHR/022 Dated: 10-09-2024

Tension Test Report (Page -1/1)

Date of Test 07-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		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	0.372	10	9.47	0.12	0.109	3200	4900	58789	64570	90021	98900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm 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,

M/S AJ Contractors
Lahore
(Project Tawal Site ID: TWPLDR0006)

Reference # CED/TFL **5768** (Dr. M Rizwan Riaz) Dated: 03-10-2024
Reference of the request letter # AJ Contractor/Steel/Tawal/13 Dated: 18-09-2024

Tension Test Report (Page -1/1)

Date of Test 07-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		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	0.367	10	9.41	0.12	0.108	3200	5000	58789	65450	91858	102300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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,

Resident Engineer
NESPAK
Rain Water Management Drainage Arrangement for Sore Point at Nishter Park Sports Complex (Qaddafi Stadium), Lahore.

Reference # CED/TFL **5769** (Dr. M Kashif) Dated: 03-10-2024
Reference of the request letter # 3882/MZA/401 Dated: 28-09-2024

Tension Test Report (Page -1/2)

Date of Test 07-10-2024
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	0.375	3	0.374	0.11	0.110	3500	5500	70200	70050	110200	110100	1.00	12.5	Markhor Steel
2	0.376	3	0.375	0.11	0.111	3300	5100	66200	65740	102200	101600	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,

Resident Engineer
NESPAK
Rain Water Management Drainage Arrangement for Sore Point at Nishter Park Sports Complex (Qaddafi Stadium), Lahore.

Reference # CED/TFL **5769** (Dr. M Kashif) Dated: 03-10-2024
Reference of the request letter # 3882/MZA/402 Dated: 28-09-2024

Tension Test Report (Page -1/2)

Date of Test 07-10-2024
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	0.378	3	0.376	0.11	0.111	3500	5400	70200	69450	108200	107200	1.20	15.0	Markhor Steel
2	0.376	3	0.375	0.11	0.111	3500	5500	70200	69730	110200	109600	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,

Sub Divisional Officer
Irrigation Research Sub Division
Lahore
(Rechage of Aquifer for Groundwater Management Punjab.)

Reference # CED/TFL **5772** (Dr. M Kashif) Dated: 03-10-2024
Reference of the request letter # 8-E/1825 Dated: 27-09-2024

Tension Test Report (Page -1/1)

Date of Test 07-10-2024
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	0.385	3	0.379	0.11	0.113	4000	5500	80200	77960	110200	107200	0.80	10.0	SN Supreme
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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,

Assistant Engineer
ITU (Information Technology University of The Punjab)
Construction of Multi-Purpose Building at Main Campus Barki Road Lahore.

Reference # CED/TFL **5773** (Dr. M Rizwan Riaz) Dated: 03-10-2024
Reference of the request letter # ITU/OEW/24/333 Dated: 26-09-2024

Tension Test Report (Page -1/1)

Date of Test 07-10-2024
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	0.364	3	0.369	0.11	0.107	3600	4900	72200	74120	98200	100900	1.10	13.8	
2	0.364	3	0.369	0.11	0.107	3600	4900	72200	74150	98200	101000	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.

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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/10/5775 Dated: 04-10-2024

Dated of Test: 05-10-2024

To

RE
Package V
MMP-PCP
Okara

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]** (Page # 1/5)

Reference to your letter No. MMP/MCO/PCP/307/2024, dated 03.10.2024 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	66	8.04	7.62	78.94	65.79	6.57	15139	25514	799	1346

Witness by Waseem Ahmed (RE PCP Pkg V)

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/10/5775 Dated: 04-10-2024

Dated of Test: 05-10-2024

To

RE
Package V
MMP-PCP
Okara

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]** (Page # 2/5)

Reference to your letter No. MMP/MCO/PCP/308/2024, dated 03.10.2024 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	60	8.03	7.62	72.20	59.92	6.14	19586	30702	1135	1779

Witness by Waseem Ahmed (RE PCP Pkg V)

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/10/5775 Dated: 04-10-2024

Dated of Test: 05-10-2024

To

RE
Package V
MMP-PCP
Okara

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]** (Page # 3/5)

Reference to your letter No. MMP/MCO/PCP/309/2024, dated 03.10.2024 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	42	8.09	7.62	51.26	42.26	4.50	12916	19956	1061	1639

Witness by Waseem Ahmed (RE PCP Pkg V)

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/10/5775 Dated: 04-10-2024

Dated of Test: 05-10-2024

To

RE
Package V
MMP-PCP
Okara

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]** (Page # 4/5)

Reference to your letter No. MMP/MCO/PCP/310/2024, dated 03.10.2024 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	36	7.99	7.62	44.17	36.01	4.08	16622	24032	1602	2316

Witness by Waseem Ahmed (RE PCP Pkg V)

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/10/5775 Dated: 04-10-2024

Dated of Test: 05-10-2024

To

RE
Package V
MMP-PCP
Okara

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]** (Page # 5/5)

Reference to your letter No. MMP/MCO/PCP/311/2024, dated 03.10.2024 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	12	7.76	7.37	16.14	12.02	2.06	7729	8840	2307	2639

Witness by Waseem Ahmed (RE PCP Pkg V)

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 Al-Hamd Engineering Services
Lahore
(Project Cola Next Phool Nagar Lahore.)

Reference # CED/TFL **5776** (Dr. M Rizwan Riaz) Dated: 04-10-2024
Reference of the request letter # Nil Dated: 04-10-2024

Tension Test Report (Page -1/1)

Date of Test 07-10-2024
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	0.368	3	0.371	0.11	0.108	3200	4900	64200	65260	98200	100000	1.60	20.0	
2	0.366	3	0.370	0.11	0.107	3200	4900	64200	65630	98200	100500	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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2. The above results pertain to sample /samples supplied to this laboratory.
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,

Project Manager
Guarantee Engineers (Pvt.) Ltd.
Lahore

Reference # CED/TFL **5777** (Dr. M Rizwan Riaz) Dated: 04-10-2024
Reference of the request letter # GE/PKGS/Site/001 Dated: 03-10-2024

Tension Test Report (Page -1/1)

Date of Test 07-10-2024
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	0.368	3	0.371	0.11	0.108	3400	5100	68200	69320	102200	104000	1.10	13.8	
2	0.367	3	0.371	0.11	0.108	3400	5200	68200	69450	104200	106300	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:
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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,

Sub Divisional Officer
Buildings Sub Division
Sambrial
(Correctional Facilities Revamping Programe one at District Jail Sialkot)

Reference # CED/TFL **5778** (Dr. M Rizwan Riaz) Dated: 04-10-2024
Reference of the request letter # 233/SMBL Dated: 17-08-2024

Tension Test Report (Page -1/1)

Date of Test 07-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.367	3	0.371	0.11	0.108	3600	4900	72200	73540	98200	100100	1.30	16.3	Sheikhoo Steel
2	0.364	3	0.369	0.11	0.107	3500	4900	70200	72040	98200	100900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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
NESPAK – TurkPak Jv
Establishment General Hospital at District Bahawalnagar.

Reference # CED/TFL **5781** (Dr. M Kashif) Dated: 07-10-2024
Reference of the request letter # 4460/13/MIAC/04/400 Dated: 25-09-2024

Tension Test Report (Page -1/2)

Date of Test 04-10-2024
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	0.377	3	0.376	0.11	0.111	3800	4700	76200	75600	94200	93600	0.80	10.0	FF Steel
2	0.378	3	0.376	0.11	0.111	3600	4600	72200	71440	92200	91300	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,

Resident Engineer
NESPAK – TurkPak Jv
Establishment General Hospital at District Bahawalnagar.

Reference # CED/TFL **5781** (Dr. M Kashif) Dated: 07-10-2024
Reference of the request letter # 4460/13/MIAC/04/409 Dated: 04-10-2024

Tension Test Report (Page -2/2)

Date of Test 04-10-2024
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	3600	4900	72200	71860	98200	97900	1.10	13.8	FF Steel
2	0.378	3	0.376	0.11	0.111	3500	4800	70200	69410	96200	95200	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.

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2. The above results pertain to sample /samples supplied to this laboratory.
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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,

Dy Dir Infra
Defence Housing Authority
Gujranwala
Sector – D

Reference # CED/TFL **5782** (Dr. M Rizwan Riaz) Dated: 07-10-2024
Reference of the request letter # 111/DD/Lab/D/179 Dated: 30-09-2024

Test Report (Page -1/1)

Date of Test 07-10-2024
Gauge length 8 inches
Description Deformed Steel Bar Weight & Size Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	
1	4.239	10	1.260	1.27	1.246	
2	4.247	10	1.261	1.27	1.248	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
Note: only two samples for test						

I/C Testing Laboratoires
UET Lahore, Pakistan.

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2. The above results pertain to sample /samples supplied to this laboratory.
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