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/01/4572 Dated: 30-01-2024

Dated of Test: 13-02-2024

To

Head QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore.

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 – 08a]**

Reference to your letter No. Nil, dated 20.01.2024 on the subject cited above. Two R.C.C. Pipes as received by us have 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	9	7.77	7.28	12.44	9.09	1.68	8500	9800	3396	3916
2	9	7.76	7.27	12.28	8.81	1.74	7500	9300	3099	3842

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

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Department of Civil Engineering
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Ref: CED/TFL/01/4576 Dated: 30-01-2024

Dated of Test: 13-02-2024

To

Engineer
Dy Dir Infra
Defence Housing Authority
Gujranwala
Sector L

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

Reference to your letter No. 111/15/DD/RS/Lab/Sec-L/706, dated 26.01.2024 on the subject cited above. Five R.C.C. Pipes as received by us have 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	9	7.84	7.29	11.02	8.59	1.22	5000	6000	2112	2534
2	12	7.80	7.34	15.94	11.75	2.10	11500	13500	3530	4144
3	15	7.77	7.28	19.41	14.70	2.35	8500	12800	2100	3162
4	15	7.81	7.34	19.53	14.83	2.35	8800	12700	2140	3088
5	18	7.78	7.37	23.15	17.87	2.64	15300	17300	3076	3478

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,

General Manager (Design)
Netracon Technologies (Pvt) Ltd
Procurement of Plant-Design, Supply, Installation, Testing and Commission of 220 kV D/C T/B OHTL from Sheikhupura G/S to Bund Road G/S (28 km on Rail Conductor).

Reference # CED/TFL **4616** (Dr. Ali Ahmed) Dated: 12-02-2024
Reference of the request letter # NTT-HO/ADB301C-R/SI-014 Dated: 06-02-2024

Tension Test Report (Page # 1/1)

Date of Test 13-02-2024
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	4.264	10	1.263	1.27	1.253	42600	55000	74000	74920	95500	96800	1.40	17.5	SJ Steel
2	4.200	10	1.254	1.27	1.235	41600	55600	72200	74270	96500	99300	1.40	17.5	
3	4.159	10	1.248	1.27	1.223	41000	55800	71200	73920	96900	100600	1.70	21.3	
4	4.205	10	1.254	1.27	1.236	43200	57600	75000	77050	100000	102800	1.50	18.8	
5	4.204	10	1.254	1.27	1.236	41000	55800	71200	73130	96900	99600	1.60	20.0	
6	4.225	10	1.257	1.27	1.242	44400	58000	77100	78800	100700	103000	1.40	17.5	
Note: only six samples for tensile and six samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180º is Satisfactory														
#10 Bar Bend Test Through 180º is Satisfactory														
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Witness by Sohaib Ali (Sub-Engr. NESPAK)

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,

Project Director
Overseas Construction Co. (Pvt) Ltd
Gulberg City Centre, Lahore

Reference # CED/TFL **4623** (Dr. Safeer Abbas) Dated: 13-02-2024
Reference of the request letter # OCC/Steel/55 Dated: 13-02-2024

Tension Test Report (Page -1/1)

Date of Test 13-02-2024
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	4.305	10	1.269	1.27	1.266	41600	58200	72200	72450	101100	101400	1.30	16.3	AF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Hunza Steel Pvt. Ltd.
Lahore

Reference # CED/TFL **4626** (Dr. Asad Ali) Dated: 13-02-2024
Reference of the request letter # Nil Dated: 13-02-2024

Tension Test Report (Page -1/1)

Date of Test 13-02-2024
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	0.375	0.11	0.110	3520	4940	70600	70360	99000	98800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

Engineer
Dy Dir Infra
Defence Housing Authority, Gujranwala
"Family Park (Villas Space)"

Reference # CED/TFL **4628** (Dr. Asad Ali) Dated: 13-02-2024
Reference of the request letter # 111/3/DD/Dev/ESAC-05/19 Dated: 12-02-2024

Tension Test Report (Page -1/1)

Date of Test 13-02-2024
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	0.374	3	0.374	0.11	0.110	3540	5520	71000	70950	110700	110700	1.00	12.5	Makhor Steel
2	0.377	3	0.376	0.11	0.111	3640	5630	73000	72340	112900	111900	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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STRUCTURAL ENGINEERING DIVISION
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/02/4632 Dated: 13-02-2024

Dated of Test: 13-02-2024

To

M/s National Technocommercial Services (Private) Limited
Lahore

Subject: **- BREAKING LOAD TEST OF LUG No. MK-59 (NTS with Harding)**
(Page # 1/2)

Reference to your Letter No. NTS/DC-Lug 59/DC/24, dated: 13/02/2024, on the subject cited above. One Lug No. Sr. 1 (dia 44.0 mm, Length 66.50mm) with assembly as received by us have been tested. The results are shown below:

Sample No. : 1

Breaking Load : 15800 kg

Remarks : Hook Break

I/C Testing Laboratoires
UET Lahore, Pakistan.

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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/02/4632 Dated: 13-02-2024

Dated of Test: 13-02-2024

To

M/s National Technocommercial Services (Private) Limited
Lahore

Subject: **- BREAKING LOAD TEST OF LUG) No. MK-43A (ATR) (NTS with Harding) (Page # 2/2)**

Reference to your Letter No. NTS/DC-Lug 43A/DC/24, dated: 13/02/2024, on the subject cited above. One Lug No. Sr. 3 (dia 44 mm, Length 59mm) with assembly as received by us has been tested. The results are shown below:

Sample No. : 1

Breaking Load : 16900 kg

Remarks : Hook Break

I/C Testing Laboratoires
UET Lahore, Pakistan.

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