



CHAKAN TESTING AND RESEARCH LAB

(AN ISO / IEC – 17025: 2017 Accredited Lab by NABL)

Address: M.No.948 Gat No.231 Varchi Kad Vasti, Kharabwadi, TAL-Khed, Dist. Pune, Maharashtra.

Mobile: 8149107971, Email id: info.ctrlab@gmail.com

TEST REPORT

Test Report Number: CTRL/2024/J/13757

Report Issue Date: 10/10/2024

Name of Customer	PIONEER INDUSTRIAL INSTRUMENTS		
Address	GAT NO: 107/B PLOT NO:5 SONAEE INDUSTRIAL ESTATE PIRANGUT PUNE -412115		
Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
Sample Description	Source of Sample: Sample supplied by the customer Customer Reference: 04.10.2024, Challan no.- 304, Ref. No.- PIE/145/24-25 Date of Test:- 09/10/2024 Sample Description: Perforated Cable Tray Size of the Sample:- 300 (W) X 75(H) X 2500 mm (L) & 2 mm thick Span: 2350 mm, Bearing: 75 mm, Condition of Sample: Satisfactory	Your Challan No & Date	304.& 04/10/2024
Sample Quantity received	01	Sample Received Date	08/10/2024
Material Specification	--	Test Temp. (°C)	25
Tested at & Date	CTRL, Chakan Pune & 09/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	MECHANICAL		
Group	MECHANICAL PROPERTIES OF METALS		
Test method	ASTM A370:2024		

UNIFORMLY DISTRIBUTED LOAD & DEFLECTION TEST:

Applied Load(Kg)	Central Deflection (mm)
0	0
21.41	1.03
42.83	2.37
61.18	3.3
82.60	4.01
100.95	4.38
122.37	4.85
140.72	5.21
140.72	5.22
140.72	5.23
140.72	5.24
140.72	5.25
162.13	5.55
180.49	5.83
201.90	6.16
250.85	6.81
302.86	7.47
351.80	8.12
400.75	8.7
452.75	9.28
501.70	9.8
602.65	10.79
700.55	11.72
801.50	12.64
902.45	13.47



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1000.34	14.24
1502.04	18.13
2000.68	22.89
2150.58	24.55
2202.59	25.19
MAX FAILURE LOAD	2251.53

CHECKED BY: Shivmurath R Prasad	REVIEWED & AUTHORISED BY:KK JHA
	

END OF TEST REPORT

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4. Any correction to report without authorization invalidates report.	7. Samples are retained by CTRL for 90 days. If required, please arrange to collect the balance /tested sample, if any, within this time frame. Any request to retest or extra test will attract extra / additional cost.
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TEST REPORT

Test Report Number: CTRL/2024/J/13757-A

Report Issue Date: 10/10/2024

Name of Customer	PIONEER INDUSTRIAL INSTRUMENTS		
Address	GAT NO: 107/B PLOT NO:5 SONAEE INDUSTRIAL ESTATE PIRANGUT PUNE -412115		
Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
Sample Description	Source of Sample: Sample supplied by the customer Customer Reference: 04.10.2024, Challan no.- 304, Ref. No.- PIE/145/24-25 Date of Test:- 09/10/2024 Sample Description: Perforated Cable Tray Size of the Sample:- 200 (W) X 50(H) X 2500 mm (L) & 2 mm thick Span: 2350 mm, Bearing: 50 mm, Condition of Sample: Satisfactory	Your Challan No & Date	304.& 04/10/2024
Sample Quantity received	01	Sample Received Date	08/10/2024
Material Specification	--	Test Temp. (°C)	25
Tested at & Date	CTRL, Chakan Pune & 09/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	MECHANICAL		
Group	MECHANICAL PROPERTIES OF METALS		
Test method	ASTM A370:2024		

UNIFORMLY DISTRIBUTED LOAD & DEFLECTION TEST:

Applied Load(Kg)	Central Deflection (mm)
0.00	0
21.41	1.16
42.83	1.96
61.18	2.52
82.60	3
100.95	3.49
122.37	3.97
140.72	4.33
162.13	4.78
180.49	5.07
201.90	5.44
220.26	5.75
241.67	6.07
260.03	6.35
260.03	6.36
260.03	6.37
281.44	6.64
302.86	6.95
351.80	7.67
400.75	8.27
452.75	8.85
501.70	9.37
550.65	9.9
602.65	10.47
651.60	11



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700.55	11.5
752.55	12.05
801.50	12.53
850.44	12.99
902.45	13.52
951.40	14
1000.34	14.48
1052.35	14.99
1101.29	15.49
1202.25	16.62
1251.19	17.19
MAX FAILURE LOAD	1294.02

CHECKED BY: Shivmurath R Prasad	REVIEWED & AUTHORISED BY:KK JHA
	

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TEST REPORT

Test Report Number: CTRL/2024/J/13757-B

Report Issue Date: 10/10/2024

Name of Customer	PIONEER INDUSTRIAL INSTRUMENTS		
Address	GAT NO: 107/B PLOT NO:5 SONAEE INDUSTRIAL ESTATE PIRANGUT PUNE -412115		
Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
Sample Description	Source of Sample: Sample supplied by the customer Customer Reference: 04.10.2024, Challan no.- 304, Ref. No.- PIE/145/24-25 Date of Test:- 09/10/2024 Sample Description: Perforated Cable Tray Size of the Sample:- 150 (W) X 50(H) X 2500 mm (L) & 2 mm thick Span: 2350 mm, Bearing: 50 mm, Condition of Sample: Satisfactory	Your Challan No & Date	304.& 04/10/2024
Sample Quantity received	01	Sample Received Date	08/10/2024
Material Specification	--	Test Temp. (°C)	25
Tested at & Date	CTRL, Chakan Pune & 09/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	MECHANICAL		
Group	MECHANICAL PROPERTIES OF METALS		
Test method	ASTM A370:2024		

UNIFORMLY DISTRIBUTED LOAD & DEFLECTION TEST:

Applied Load(Kg)	Central Deflection (mm)
0.00	0
21.41	0.64
42.83	1.29
61.18	1.71
79.54	2.16
100.95	2.57
122.37	3.02
140.72	3.41
162.13	3.86
180.49	4.16
208.02	4.64
220.26	4.84
241.67	5.18
260.03	5.43
281.44	5.75
302.86	6.12
321.21	6.39
351.80	6.82
403.81	7.41
452.75	7.87
501.70	8.3
550.65	8.74
602.65	9.19
651.60	9.61
700.55	9.98



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801.50	10.76
850.44	11.12
902.45	11.49
951.40	11.88
1000.34	12.26
1502.04	16
1703.95	17.69
1801.84	18.51
1902.79	19.41
1951.74	19.87
1960.91	20.1
MAX FAILURE LOAD	1960.91

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TEST REPORT

Test Report Number: CTRL/2024/J/13757-C

Report Issue Date: 10/10/2024

Name of Customer	PIONEER INDUSTRIAL INSTRUMENTS		
Address	GAT NO: 107/B PLOT NO:5 SONAEE INDUSTRIAL ESTATE PIRANGUT PUNE -412115		
Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
Sample Description	Source of Sample: Sample supplied by the customer Customer Reference: 04.10.2024, Challan no.- 304, Ref. No.- PIE/145/24-25 Date of Test:- 09/10/2024 Sample Description: Perforated Cable Tray Size of the Sample:- 100 (W) X 50(H) X 2500 mm (L) & 2 mm thick Span: 2350 mm, Bearing: 50 mm, Condition of Sample: Satisfactory	Your Challan No & Date	304.& 04/10/2024
Sample Quantity received	01	Sample Received Date	08/10/2024
Material Specification	--	Test Temp. (°C)	25
Tested at & Date	CTRL, Chakan Pune & 09/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	MECHANICAL		
Group	MECHANICAL PROPERTIES OF METALS		
Test method	ASTM A370:2024		

UNIFORMLY DISTRIBUTED LOAD & DEFLECTION TEST:

Applied Load(Kg)	Central Deflection (mm)
0.00	0
21.41	0.52
42.83	1.13
61.18	1.63
82.60	2.2
100.95	2.66
122.37	3.14
140.72	3.47
162.13	3.83
180.49	4.15
201.90	4.5
211.08	4.66
250.85	5.23
302.86	6
351.80	6.63
406.87	7.3
452.75	7.81
504.76	8.37
553.71	9.08
602.65	9.37
651.60	9.83
700.55	10.28
752.55	10.74
801.50	11.13
850.44	11.54



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902.45	11.96
951.40	12.34
1000.34	12.74
1150.24	14.29
1202.25	14.42
1251.19	14.83
1352.14	15.7
1401.09	16.14
1450.04	16.62
1502.04	17.05
1550.99	17.5
1602.99	17.99
1651.94	18.48
MAX FAILURE LOAD	1700.88

CHECKED BY: Shivmurath R Prasad	REVIEWED & AUTHORISED BY:KK JHA
	

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TEST REPORT

Test Report Number: CTRL/2024/J/13757-D

Report Issue Date: 10/10/2024

Name of Customer	PIONEER INDUSTRIAL INSTRUMENTS		
Address	GAT NO: 107/B PLOT NO:5 SONAEE INDUSTRIAL ESTATE PIRANGUT PUNE -412115		
Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
Sample Description	Source of Sample: Sample supplied by the customer Customer Reference: 04.10.2024, Challan no.- 304, Ref. No.- PIE/145/24-25 Date of Test:- 09/10/2024 Sample Description: Perforated Cable Tray Size of the Sample:- 50(W) X 50(H) X 2500 mm (L) & 2 mm thick Span: 2350 mm, Bearing: 25 mm, Condition of Sample: Satisfactory	Your Challan No & Date	304.& 04/10/2024
Sample Quantity received	01	Sample Received Date	08/10/2024
Material Specification	--	Test Temp. (°C)	25
Tested at & Date	CTRL, Chakan Pune & 09/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	MECHANICAL		
Group	MECHANICAL PROPERTIES OF METALS		
Test method	ASTM A370:2024		

UNIFORMLY DISTRIBUTED LOAD & DEFLECTION TEST:

Applied Load(Kg)	Central Deflection (mm)
0.00	0
21.41	0.38
42.83	1.09
61.18	1.77
82.60	2.4
100.95	3.01
122.37	3.54
140.72	3.94
162.13	4.39
180.49	4.82
201.90	5.27
226.38	5.83
241.67	6.14
260.03	6.51
281.44	6.93
302.86	7.29
321.21	7.62
342.62	8
360.98	8.34
382.39	8.72
400.75	9.05
422.16	9.42
440.52	9.74
461.93	10.13
480.29	10.44



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501.70	10.79
520.06	11.1
541.47	11.49
569.00	11.97
581.24	12.18
MAX FAILURE LOAD	584.29

CHECKED BY: Shivmurath R Prasad	REVIEWED & AUTHORISED BY:KK JHA
	

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Report Issue Date: 10/10/2024

Name of Customer	PIONEER INDUSTRIAL INSTRUMENTS		
Address	GAT NO: 107/B PLOT NO:5 SONAEE INDUSTRIAL ESTATE PIRANGUT PUNE -412115		
Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
Sample Description	Source of Sample: Sample supplied by the customer Customer Reference: 04.10.2024, Challan no.- 304, Ref. No.- PIE/145/24-25 Date of Test:- 09/10/2024 Sample Description: Perforated Cable Tray Size of the Sample:- 300(W) X 75(H) X 2500 mm (L) & 2 mm thick Span: 2350 mm, Bearing: 25 mm, Condition of Sample: Satisfactory	Your Challan No & Date	304.& 04/10/2024
Sample Quantity received	01	Sample Received Date	08/10/2024
Material Specification	--	Test Temp. (°C)	20
Tested at & Date	CTRL, Chakan Pune & 09/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	MECHANICAL		
Group	MECHANICAL PROPERTIES OF METALS		
Test method	IS 3203:1982		

UNIFORMITY OF ZINC COATING:

Observation 1	92.4 Micron
Observation 2	94.5 Micron
Observation 3	95.7 Micron
Observation 4	97.6 Micron
Average	95.05 Micron

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Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
Sample Description	Source of Sample: Sample supplied by the customer Customer Reference: 04.10.2024, Challan no.- 304, Ref. No.- PIE/145/24-25 Date of Test:- 09/10/2024 Sample Description: Perforated Cable Tray Size of the Sample:- 300(W) X 75(H) X 2500 mm (L) & 2 mm thick Span: 2350 mm, Bearing: 25 mm, Condition of Sample: Satisfactory	Your Challan No & Date	304.& 04/10/2024
Sample Quantity received	01	Sample Received Date	08/10/2024
Material Specification	--	Test Temp. (°C)	20
Tested at & Date	CTRL, Chakan Pune & 09/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	MECHANICAL		
Group	MECHANICAL PROPERTIES OF METALS		
Test method	IS 10810- 40: 2021		

UNIFORMITY OF ZINC COATING:

Parameter	Observation
Specimen No.	01
Specimen Size (mm)	300(W) X 75(H) X 200 mm (L) & 2 mm thick
No. of Dips	03
Red Deposit of Copper	No
Remark: Specimen meets the requirement of the standard	

CHECKED BY: Shivmurath R Prasad	REVIEWED & AUTHORISED BY:KK JHA
	

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Address	GAT NO: 107/B PLOT NO:5 SONAEE INDUSTRIAL ESTATE PIRANGUT PUNE -412115		
Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
Sample Description	Source of Sample: Sample supplied by the customer Customer Reference: 04.10.2024, Challan no.- 304, Ref. No.- PIE/145/24-25 Date of Test:- 09/10/2024 Sample Description: Perforated Cable Tray Size of the Sample:- 300(W) X 75(H) X 2500 mm (L) & 2 mm thick Span: 2350 mm, Bearing: 25 mm, Condition of Sample: Satisfactory	Your Challan No & Date	304. & 04/10/2024
Sample Quantity received	01	Sample Received Date	08/10/2024
Material Specification	--	Test Temp. (°C)	20
Tested at & Date	CTRL, Chakan Pune & 09/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	MECHANICAL		
Group	MECHANICAL PROPERTIES OF METALS		
Test method	IS 4759: 2021		

HAMMER TEST:

SPECIMEN NO.	OBSERVATION
1	Free from imperfections such as flux, ash bare patches, black spots, pimples, lumpiness, runs, rust stains, bulky white deposits and blisters.

CHECKED BY: Shivmurath R Prasad	REVIEWED & AUTHORISED BY:KK JHA
	

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Mobile: 8149107971, Email id: info.ctrlab@gmail.com



TEST REPORT

Test Report Number: CTRL/2024/J/13757

Report Issue Date: 09/10/2024

ULR NO:TC863824000006376F

Name of Customer	PIONEER INDUSTRIAL INSTRUMENTS		
Address	GAT NO: 107/B PLOT NO:5 SONAEE INDUSTRIAL ESTATE PIRANGUT PUNE -412115		
Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
Sample Description	Source of Sample: Sample supplied by the customer Customer Reference: 04/10/2024 CHALLAN NO.-304 Ref. No.- PII/145/24-25 Date of Test : 09.10.2024 Sample: Description : Perforated Cable Tray Size of the sample : 300(W)x75(H)x2500mm(L) & 2mm thick Span:2350mm Bearing : 75mm Condition of sample: Satisfactory		
Sample Quantity received	13	Your Challan No & Date	304& 04/10/2024
Material Specification	NA	Sample Received Date	08/10/2024
Tested at & Date	CTRL, Chakan Pune & 09/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757	Test Temp. (°C)	25

MASS LOSS OF ZINC COATING TEST :

Discipline:CORROSION

Group: METAL & ALLOYS

Test method: IS 6745-1972 RA 2016

Sr.No	Parameter / Description	Observed-1	Observed 2	Observed 3
1	SIZE (mm)	2.58X50X50	2.46X50X50	2.23X50X50
2	AREA (cm ²)	6.45	6.15	5.575
3	INITIAL WEIGHT (gm)	38.795	38.570	34.522
4	FINAL WEIGHT (gm)	33.227	32.912	31.110
5	DIFF OF WEIGHT (gm)	5.5689	5.658	5.575
6	MASS LOSS OF ZINC COATING ((g/cm ²))	0.863	0.920	0.612
7	AVG.MASS LOSS (g/cm ²)	0.80		

CHECKED BY: SUBODH MULIK	REVIEWED & AUTHORISED BY:KK JHA

***** End of Test Report *****

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4. Any correction to report without authorization invalidates report.	7. Samples are retained by CTRL for 90 days. If required, please arrange to collect the balance /tested sample, if any, within this time frame. Any request to retest or extra test will attract extra / additional cost.	
The reported uncertainty is at a coverage factor k=2 corresponds to a confidence level 95.45%		
Format number: 1 Rev.1	Subjected to Pune Jurisdiction	Page 1/1



CHAKAN TESTING AND RESEARCH LAB

(AN ISO / IEC – 17025: 2017 Accredited Lab by NABL)

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Mobile: 8149107971, Email id: info.ctrlab@gmail.com



TEST REPORT

Test Report Number: CTRL/2024/J/13757

Report Issue Date: 09/10/2024

ULR NO:TC863824000006376F

Name of Customer	PIONEER INDUSTRIAL INSTRUMENTS		
Address	GAT NO: 107/B PLOT NO:5 SONAEE INDUSTRIAL ESTATE PIRANGUT PUNE -412115		
Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
Sample Description	Source of Sample: Sample supplied by the customer Customer Reference: 04/10/2024 CHALLAN NO.-304 Ref. No.- PII/145/24-25 Date of Test : 09.10.2024 Sample: Description : Perforated Cable Tray Size of the sample : 300(W)x75(H)x2500mm(L) & 2mm thick Span:2350mm Bearing : 75mm Condition of sample: Satisfactory	Your Challan No & Date	304& 04/10/2024
Sample Quantity received	13	Sample Received Date	08/10/2024
Material Specification	NA	Test Temp. (°C)	25
Tested at & Date	CTRL, Chakan Pune & 09/10/2024-10/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	CHEMICAL		
Group	CORROSION		
Test method	ASTM B 117:2019		

SALT SPRAY TEST :

ETCHANT:



Sample Photo Before.



Sample Photo after 24 hrs.

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TEST REPORT

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Report Issue Date: 09/10/2024

ULR NO:TC863824000006376F

Test Condition		SPECIFICATION	OBSERVATION
Sample Qty.		1 No.	--
Test Duration		24 Hours	--
Salt Solution. Concentration.		5 wt. %	--
Type of Water		Type IV (D1193)	--
		Chamber Temp. 35°C ±2 °C, pH of collected solution 6.5 - 7.2,Fog collection rate 1 to 2 ml/hr.	Chamber Temp. 33.1°C,pH of collected solution 7.0 Fog collection rate 1.1ml/hr.
DURATION		OBSERVATION	
24 hrs		After 24 hrs no rust observed on sample.	
Remark :- After 24 hrs no rust observed on sample.			
CHECKED BY: ROHIT KUMAR JHA			REVIEWED & AUTHORISED BY:KK JHA
			

***** End of Test Report *****

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Address	GAT NO: 107/B PLOT NO:5 SONAEE INDUSTRIAL ESTATE PIRANGUT PUNE -412115		
Contact Details of Customer	pioneerdeepak@yahoo.co.in, 9850532721		
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Sample Quantity received	13	Sample Received Date	08/10/2024
Material Specification	NA	Test Temp. (°C)	25
Tested at & Date	CTRL, Chakan Pune & 08/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	MECHANICAL		
Group	MECHANICAL PROPERTIES OF METALS		
Test method	ISO 6892-1:2019		

TENSILE :

Parameter	Results	Specified
Thickness mm	2.0	
Width mm	20.0	
Area (mm ²)	40.0	
Original G.L (mm)	36.0	
Final G.L (mm)	45.41	
Yield Load kN	11.25	
Ultimate Load (kN)	18.03	
Y.S. (N/mm ²)	281.25	
U.T. SN/mm ²	450.75	
Elongation (%)	26.14	
Fracture Location	WGL	

CHECKED BY: ROHIT KUMAR JHA

REVIEWED & AUTHORISED BY: KK JHA

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Material Specification	NA	Test Temp. (°C)	25
Tested at & Date	CTRL, Chakan Pune & 09/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	CHEMICAL		
Group	METAL & ALLOYS		
Test method	IS 8811:2018		

Chemical Analysis Test Result:

% Element	Observed	Spec. Min	Spec. Max
C	0.17	--	--
Si	0.11	--	--
Mn	0.42	--	--
P	0.021	--	--
S	0.016	--	--
Cr	0.16	--	--
Ni	0.064	--	--
Mo	0.044	--	--
Cu	0.030	--	--
Ti	0.013	--	--

CHECKED BY: ROHIT KUMAR JHA

REVIEWED & AUTHORISED BY:KK JHA

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Material Specification	NA	Test Temp. (°C)	25
Tested at & Date	CTRL, Chakan Pune & 08/10/2024	Sample condition	Ok
Our Lab ID No	CTRL/2024/10/13757		
Discipline	MECHANICAL		
Group	MECHANICAL PROPERTIES OF METALS		
Test method	ISO 7438 :2020		

Bend Test:

Sr.No	Parameter	Observed
1	BEND TYPE	CLOSE BEND
2	THICKNESS	2.0
3	WIDTH	40.0
4	Former Dia. 1T	2.0
5	Observation	Found free from cracks & any defects

CHECKED BY: ROHIT KUMAR JHA	REVIEWED & AUTHORISED BY:KK JHA

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