



AADCO Testing & Research Laboratory Pvt. Ltd.

F-2B, Bulandshahar Road, Indl. Area, Ghaziabad-201009

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0120 - 4265545 aadco_testing

CIN No.: U85100UP2014PTC065882

This report is not valid/authentic without the QR code

ATRL/QSF-1002

Issued to:
Assistant Engineer(E)-1
Central Public Works Department
ESIC Project Division
Gate No. 2, Type-4 Quarter, 1st Floor,
Survey No. 683-690, Bibwewadi, Pune-37



Report No.: 20250430GEN33080
Date of Issue: 02.05.2025
Date of Receipt: 30.04.2025
Reference No:- 54(1)/AEEH/PUNE/2025/41#
Date:- 18.02.2025
Page No.: 01 of 01

Sample Description (as described by client): GI Cable Tray (300x50mm),
Marks: Construction of 500 Bodedd Hospital Including 50 Super Speciality beds for ESIC at Bibwewadi, Pune, Maharashtra.
Agmt. No.: 01/EE&SM(C)SE CUM PD/PUNE/2022-23
Agency Name:- Dee Vao Projects Limited,
Sample given: By Client

Discipline/Group: Chemical/ Metal and alloys and
Chemical/Metallic Coating and Treatment Solution
Testing Performed: Laboratory.

Sample Condition: Ok

TEST REPORT

S. No.	Test (with unit of measurement)	Test Result	Test Method
Chemical Test			
1.	Carbon, %	0.05	ASTM E-415: 2021
2.	Manganese, %	0.10	ASTM E-415: 2021
3.	Phosphorus, %	0.010	ASTM E-415: 2021
4.	Sulphur, %	0.005	ASTM E-415: 2021
Coating Test			
1.	Mass of zinc coating, (gm/m ²)	1253	IS 6745: 1972

Note: Any deviation from the standard test method/Specification: Nil
Environment Conditions: Testing has been carried out at environmental conditions of relevant standard.

*** END OF REPORT ***

Date of Starting: 30.04.2025

Date of Completion: 02.05.2025

UUR No.: TC800625000003875F



Auth. Signatory

*Terms & Conditions:

1. Liability of our laboratory is limited to the involved amount. No liability will be accepted after the samples taken back.
2. The result listed refer only to the tested samples and applicable Parameters. Endorsement of product is neither intended nor implied.
3. The sample description is not verified in all cases and is given "As Described by Customer" Sample not drawn by our Analysts conducted on "As received basis" unless specified otherwise.
4. Sample will be destroyed within 30 days from the date of reporting unless instructed otherwise.
5. Any complaints about this report should be communicated in writing within 7 days of issue of this report.
6. This report is not to be reproduced wholly or in parts and can not be used as an evidence in a court of law and shall not be used in advertising media without the permission of the CEO in writing.
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MSME

पुंज, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES

UDYAM-UP-29-0054687



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0120 - 4265545 aadco_testing

CIN No.: UB5100UP2014PTC063882

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Issued to:
Assistant Engineer(E)-1
Central Public Works Department
ESIC Project Division
Gate No. 2, Type-4 Quarter, 1st Floor,
Survey No. 689-690, Bibwewadi, Pune-37



ATRL/QSF-1002
Report No.: 20250430GEN33980A
Date of Issue: 02.05.2025
Date of Receipt: 30.04.2025
Reference No:- 54(1)/AEH/PUNE/2025/41- मंई
Date:- 18.02.2025
Page No.: 01 of 01

Sample Description (as described by client): GI Cable Tray (300x50mm),
Marks: Construction of 500 Bedded Hospital Including 50 Super Specialty beds for ESIC at Bibwewadi, Pune, Maharashtra.
Agmt. No.: 01/EE&SM/CISE CUM PD/PUNE/2022-23
Agency Name:- Dee Vee Projects Limited,
Sample given: By Client
Sample Condition: Ok

Testing Performed: Laboratory.

TEST REPORT

S. No.	Test (with unit of measurement)	Test Result	Test Method
A.	Physical Test		
1.	Tensile Strength (MPa)	326	IS 1608 (P-1): 2022
2.	Yield Stress (MPa)	225	IS 1608 (P-1): 2022
3.	Elongation, % (GL-50)	26.6	IS 1608 (P-1): 2022
4.	Bend Test	The test piece withstood the bend test without peeling or flaking of zinc coating and no crack or fracture of base metal.	IS 277:2018
5.	Dimension Test (i) Width (mm) (ii) Thickness (mm) (iii) Depth (mm)	301 1.60 50.10	ATRL/WI/MECH/GEN/006:2022 ATRL/WI/MECH/GEN/006:2022 ATRL/WI/MECH/GEN/006:2022

Note: Any deviation from the standard test method/Specification: Nil
Environment Condition: Testing has been carried out at environmental conditions of relevant standard.
*** END OF REPORT***

Date of Starting: 30.04.2025
Date of Completion: 02.05.2025



Auth. Signatory

*Terms & Conditions:

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MSME

सूक्ष्म, लघु एवं मध्यम उद्यम
Micro, Small & Medium Enterprises

UDYAM-UP-29-0054687



Siddhartha Spectro Pvt. Ltd.

(NABL Accredited & ISO-9001:2015 Approved Laboratory)

Address: Plot No.20, New Mandoli Industrial Area, Shahdara, Delhi-110093

CIN No: U74999DL2021PTC377846 ; Website: www.siddharthaspectro.in

E-mail: siddharthaspectro@gmail.com ; Ph.No: 9560422870, 9717980908, 9873242909, 9810161092



SS/MSF/5.10.1

TEST REPORT NUMBER: 231204136-01

ULR NUMBER : TC727002300011085F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO. 2325692

DATE OF RECEIPT 04-12-2023

DATE OF ISSUE 10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray, Pre Galvanised

Test Report

Program : Fe-10-F

Comments : Fe-LA/CS

Sample ID : 231204136

Discipline : Chemical Group : Metals & Alloys

Performance Date : 06-12-2023

Performance Time : 19:07:14

Element	Observation (%)	Test Method
Carbon	0.038	JIS G 1253-2002 (Amd-1:2013)
Silicon	0.018	JIS G 1253-2002 (Amd-1:2013)
Manganese	0.165	JIS G 1253-2002 (Amd-1:2013)
Nickel	0.011	JIS G 1253-2002 (Amd-1:2013)
Chromium	0.023	JIS G 1253-2002 (Amd-1:2013)
Sulphur	0.004	JIS G 1253-2002 (Amd-1:2013)
Phosphorus	0.014	JIS G 1253-2002 (Amd-1:2013)
Copper	0.011	JIS G 1253-2002 (Amd-1:2013)
Aluminium	0.038	JIS G 1253-2002 (Amd-1:2013)
Titanium	0.001	JIS G 1253-2002 (Amd-1:2013)

Tested by:



Authorized Signatory

Terms & Conditions:

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- 2.Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
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- 5.Any complaints about this report should be made within 10 days of the report date.





Siddhartha Spectro Pvt. Ltd.

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E-mail: siddharthaspectro@gmail.com Ph. No.: 9560422870, 9717980908, 9873242909, 9810161092

SS/WSP/5.10.1

TEST REPORT NUMBER: 231204136-01 / 1

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G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray, Pre Galvanised

Test Report

Program : Fe-10-F

Performance Date : 06-12-2023

Comments : Fe-LA/CS

Performance Time : 19:07:14

Sample ID : 231204136

Discipline : Chemical Group : Metals & Alloys

Element

Observation (%)

Test Method

Iron

99.63

JIS G 1253-2002 (Amd-1:2013)

Molybdenum

<0.0004

JIS G 1253-2002 (Amd-1:2013)

Vanadium

0.0007

JIS G 1253-2002 (Amd-1:2013)

Lead

0.0009

JIS G 1253-2002 (Amd-1:2013)

Cobalt

0.002

JIS G 1253-2002 (Amd-1:2013)

Tin

<0.0002

JIS G 1253-2002 (Amd-1:2013)

Niobium

<0.0005

JIS G 1253-2002 (Amd-1:2013)

Antimony

0.001

JIS G 1253-2002 (Amd-1:2013)

Boron

<0.0001

JIS G 1253-2002 (Amd-1:2013)

Zirconium

<0.0010

JIS G 1253-2002 (Amd-1:2013)

Tungsten

<0.005

JIS G 1253-2002 (Amd-1:2013)

Tested by:



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E-mail: siddharthaspectro@gmail.com ; Ph. No.: 9560422870, 9717980908, 9873242909, 9810161092



TC-7270

SS/MSF/5.10.1

Test Report No : 231204136-02

ULR NO : TC727002300011081F

CUSTOMER DETAILS

STEEL KRAFTS

G.T ROAD, PANIPAT, HARYANA - 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO. 2325692

DATE OF RECEIPT 04-12-2023

DATE OF ISSUE 10-12-2023

DESCRIPTION -

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray,
Pre-Galvanised

Test Report

Page 01 of 01

Sample ID : 231204136
Test Method : ASTM B 117:2019
Test Duration : 96 hours
Temperature : 35°C ± 2°C
Start Date : 05-12-2023

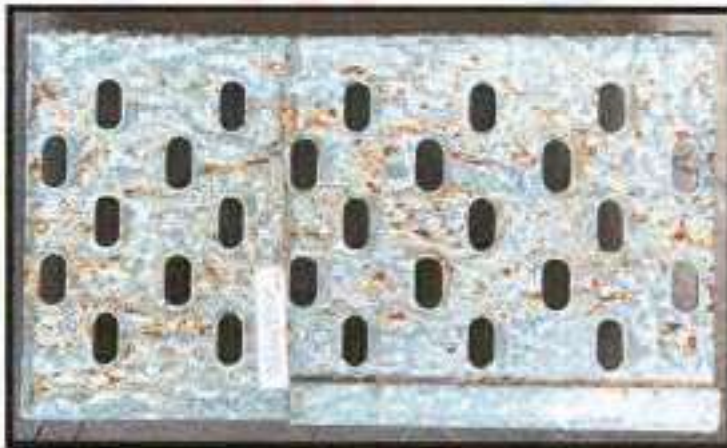
Fog Collection : 1 to 2 ml/hr
PH : 6.5 to 7.2
NaCl Solution : 50 ± 10 grams / liter
(min. assay 99.9%; ≤0.1% impurities)
End Date : 09-12-2023

Observations-

Discipline: Chemical ; Group: Corrosion Tests

S.No.	Time Interval	Observations
1.	After 24 hours	No signs of corrosion were observed on the surface of the sample.
2.	After 48 hours	No signs of corrosion were observed on the surface of the sample.
3.	After 72 hours	Slight red rust was observed only on some areas on the surface of the sample.
4.	After 96 hours	Red rust was observed only on some areas on the surface of the sample.

Photographic evidence after exposure period -



Note: Observation pertains only to the samples tested, not to its replicates or its batch.



Authorized Signatory

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4. The result listed refers only to the tested samples and applicable parameters.





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SS/WSF/5.10.1

TEST REPORT NUMBER: 231204136-03

ULR NUMBER : TC727002300011086F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO. 2325692

DATE OF RECEIPT 04-12-2023

DATE OF ISSUE 10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray, Pre Galvanised

Test Report

Sample ID : 231204136

Performance Date: 09-12-2023

Test Method: IS 6745-1972 : Mass of Zinc Coating

IS 2633-1986 : Uniformity of Zinc Coating

IS 2629-1985 : Adhesion of Zinc Coating

Discipline: Chemical Group: Metallic coatings & treatment solutions

S.No.	Test Parameter	Observations
1	Mass of Zinc Coating ; g/m ²	95.409 g/m ²
2	Uniformity of Zinc Coating	Satisfactory
3	Adhesion of Zinc Coating	Satisfactory

Note: The observations pertain only to the tested sample(s), not to its replicate or batch.

Tested by :



Authorized Signatory

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2. Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
3. Sample will be disposed off after 30 days and any claim, thereafter, will not be valid.
4. The result listed refers only to the tested samples and applicable parameters, not to their replicates or batch.





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TC-7270

SS/MSF/5.10.1

TEST REPORT NUMBER: 231204136-06

ULR NUMBER : TC727002300011087F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO. 2325692

DATE OF RECEIPT 04-12-2023

DATE OF ISSUE 10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray, Pre Galvanised

Test Report

Sample ID : 231204136

Performance Date: 08-12-2023

Test Method: IS 1608(Pt-1):2022 - Tensile Test

Discipline: Mechanical		Group: Mechanical Properties of Metals	
S.No.	Test Parameter	Observations	
1	Tensile Strength (UTS);MPa	374 MPa	
2	Yield Stress (YS);MPa	288 MPa	
3	Elongation; %	31.0%	

Note: The observations pertain only to the tested sample(s), not to its replicate or batch.

Tested by:



Authorized Signatory

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- 3.Sample will be disposed off after 30 days.
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E-mail: siddharthaspectro@gmail.com Ph. No.: 9560422870, 9717980908, 9873242909, 9810161092

SS/MSF/5.10.1

TEST REPORT NUMBER: 231204136-07

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray, Pre Galvanised

Test Report

Sample ID : 231204136

Performance Date: 10-12-2023

Test Method: IS 2102(Part-1):1993 - Dimension Test

Discipline: Mechanical		Group: Mechanical Properties of Metals	
S.No.	Test Parameter	Observations	
1	Material Thickness ; mm	Average = 2.06 mm	
2	Side Support height ; mm	Average = 50.14 mm	
3	Slot Size ; mm	Average = 9.88 mm x 19.95 mm	
4	Coupler Plate ; mm	Average = 160.23 mm x 45.10 mm	

Tested by:



Authorized Signatory

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SS/MSF/5.10.1

TEST REPORT NUMBER: 231204137-01

ULR NUMBER : TC727002300011088F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray, Hot Dip Galvanised

Test Report

Program : Fe-10-F

Performance Date : 06-12-2023

Comments : Fe-LA/CS

Performance Time : 19:10:11

Sample ID : 231204137

Discipline : Chemical Group : Metals & Alloys

Element	Observation (%)	Test Method
Carbon	0.033	JIS G 1253-2002 (Amd-1 2013)
Silicon	0.018	JIS G 1253-2002 (Amd-1 2013)
Manganese	0.161	JIS G 1253-2002 (Amd-1 2013)
Nickel	0.011	JIS G 1253-2002 (Amd-1 2013)
Chromium	0.023	JIS G 1253-2002 (Amd-1 2013)
Sulphur	0.004	JIS G 1253-2002 (Amd-1 2013)
Phosphorus	0.013	JIS G 1253-2002 (Amd-1 2013)
Copper	0.009	JIS G 1253-2002 (Amd-1 2013)
Aluminium	0.037	JIS G 1253-2002 (Amd-1 2013)
Titanium	0.001	JIS G 1253-2002 (Amd-1 2013)
Lead	0.001	JIS G 1253-2002 (Amd-1 2013)

Tested by:



Authorized Signatory

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SS/MSF/S.10.1

TEST REPORT NUMBER: 231204137-01 / 1

CUSTOMER DETAILS

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PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray, Hot Dip Galvanised

Test Report

Program : Fe-10-F

Performance Date : 06-12-2023

Comments : Fe-LA/CS

Performance Time : 19:10:11

Sample ID : 231204137

Discipline : Chemical Group : Metals & Alloys

Element	Observation (%)	Test Method
Iron	99.61	JIS G 1253-2002 (Amd-1:2013)
Molybdenum	<0.0004	JIS G 1253-2002 (Amd-1:2013)
Vanadium	0.0007	JIS G 1253-2002 (Amd-1:2013)
Cobalt	0.0006	JIS G 1253-2002 (Amd-1:2013)
Tin	<0.0002	JIS G 1253-2002 (Amd-1:2013)
Niobium	<0.0005	JIS G 1253-2002 (Amd-1:2013)
Antimony	0.001	JIS G 1253-2002 (Amd-1:2013)
Boron	<0.0001	JIS G 1253-2002 (Amd-1:2013)
Zirconium	<0.0010	JIS G 1253-2002 (Amd-1:2013)
Tungsten	<0.005	JIS G 1253-2002 (Amd-1:2013)

Tested by:



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TC-7270

SS/MSF/5.10.1

Test Report No : 231204137-02

ULR NO : TC727002300011082F

CUSTOMER DETAILS

STEEL KRAFTS

G.T ROAD, PANIPAT, HARYANA - 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO. 2325692

DATE OF RECEIPT 04-12-2023

DATE OF ISSUE 10-12-2023

DESCRIPTION -

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray,
Hot Dip Galvanised

Test Report

Page 01 of 01

Sample ID : 231204137
Test Method : ASTM B 117:2019
Test Duration : 96 hours
Temperature : 35°C ± 2°C
Start Date : 05-12-2023

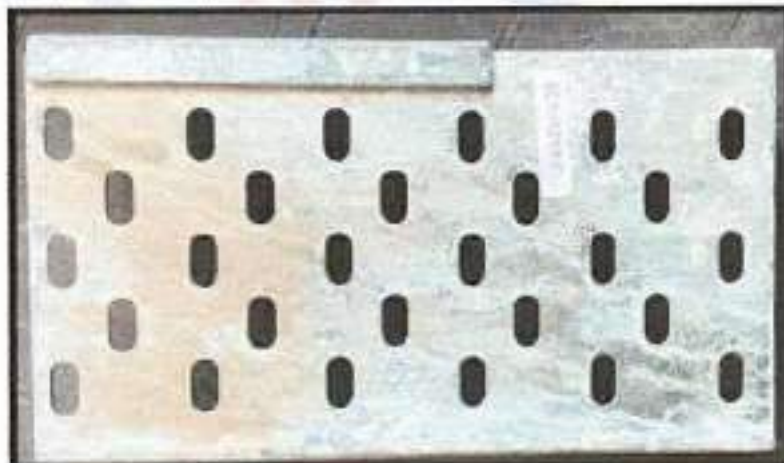
Fog Collection : 1 to 2 ml/hr
PH : 6.5 to 7.2
NaCl Solution : 50 ± 10 grams / liter
(min. assay 99.9%; ≤0.1% impurities)
End Date : 09-12-2023

Observations-

Discipline: Chemical ; Group: Corrosion Tests

S.No.	Time Interval	Observations
1.	After 24 hours	No signs of corrosion were observed on the surface of the sample.
2.	After 48 hours	No signs of corrosion were observed on the surface of the sample.
3.	After 72 hours	No signs of corrosion were observed on the surface of the sample.
4.	After 96 hours	No signs of corrosion were observed on the surface of the sample.

Photographic evidence after exposure period -



Note: Observation pertains only to the samples tested, not to its replicates or its batch.

Authorized Signatory

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Address: Plot No.20, New Mandoli Industrial Area, Shahdara, Delhi-110093

CIN No: U74999DL2021PTC377846 ; Website: www.siddharthaspectro.in

E-mail: siddharthaspectro@gmail.com ; Ph.No: 9560422870, 9717980908, 9873242909, 9810161092



SS/MSF/5.10.1

TEST REPORT NUMBER: 231204137-03

ULR NUMBER : TC727002300011089F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray, Hot Dip Galvanised

Test Report

Sample ID : 231204137

Performance Date: 09-12-2023

Test Method: IS 6745-1972 : Mass of Zinc Coating

IS 2633-1986 : Uniformity of Zinc Coating

IS 2629-1985 : Adhesion of Zinc Coating

Discipline: Chemical		Group: Metallic coatings & treatment solutions	
S.No.	Test Parameter	Observations	
1	Mass of Zinc Coating ; g/m ²	1593.410 g/m ²	
2	Uniformity of Zinc Coating	Satisfactory	
3	Adhesion of Zinc Coating	Satisfactory	

Note: The observations pertain only to the tested sample(s), not to its replicate or batch.

Tested by: 


Authorized Signatory

Terms & Conditions:

1. The sample description is not verified in all cases and is given "As described by customers". Samples are not drawn by us.
2. Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
3. Sample will be disposed off after 30 days and any claim, thereafter, will not be valid.
4. The result listed refers only to the tested samples and applicable parameters, not to their replicates or batch.





Siddhartha Spectro Pvt. Ltd.

(NABL Accredited & ISO-9001:2015 Approved Laboratory)

Address: Plot No.20, New Mandoli Industrial Area, Shahdara, Delhi-110093

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E-mail: siddharthaspectro@gmail.com ; Ph.No: 9560422870, 9717980908, 9873242909, 9810161092



SS/MSF/5.10.1

TEST REPORT NUMBER: 231204137-06

ULR NUMBER : TC727002300011090F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray, Hot Dip Galvanised

Test Report

Sample ID : 231204137

Performance Date: 08-12-2023

Test Method: IS 1608[Pt-1]:2022 - Tensile Test

Discipline: Mechanical		Group: Mechanical Properties of Metals	
S.No.	Test Parameter	Observations	
1	Tensile Strength (UTS);MPa	312 MPa	
2	Yield Stress (YS);MPa	233 MPa	
3	Elongation; %	27.3%	

Note: *The observations pertain only to the tested sample(s), not to its replicate or batch.*

Tested by:

Terms & Conditions:

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- 3.Sample will be disposed off after 30 days.
- 4.The result listed refers only to the tested samples and applicable parameters.





Siddhartha Spectro Pvt. Ltd.

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E-mail: siddharthaspectro@gmail.com Ph. No.: 9560422870, 9717980908, 9873242909, 9810161092

SS/MSF/5.10.1

TEST REPORT NUMBER: 231204137-07

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 150x50x2mm Perforated Tray, Hot Dip Galvanised

Test Report

Sample ID : 231204137

Performance Date: 08-12-2023

Test Method: IS 2102(Part-1):1993 - Dimension Test

Discipline: Mechanical

Group: Mechanical Properties of Metals

S.No.	Test Parameter	Observations
1	Material Thickness ; mm	Average = 2.11 mm
2	Side Support height ; mm	Average = 50.17 mm
3	Slot Size ; mm	Average = 9.93 mm x 19.90 mm
4	Coupler Plate ; mm	Average = 160.30 mm x 45.15 mm

Tested by:



Authorized Signatory

Terms & Conditions:

1. The sample description is not verified in all cases and is given "As described by customers". Samples are not drawn by us.
2. Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
3. Sample will be disposed off after 30 days.
4. The result listed refers only to the tested samples and applicable parameters.
5. Any complaints about this report should be communicated to us within 7 days of issue of this report.





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E-mail: siddharthaspectro@gmail.com ; Ph.No: 9560422870, 9717980908, 9873242909, 9810161092



SS/MSF/5.10.1

TEST REPORT NUMBER: 231204138-01

ULR NUMBER : TC727002300011091F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray, Pre Galvanised

Test Report

Program : Fe-10-F

Performance Date : 06-12-2023

Comments : Fe-LA/CS

Performance Time : 19:11:37

Sample ID : 231204138

Discipline : Chemical Group : Metals & Alloys

Element	Observation (%)	Test Method
Carbon	0.033	JIS G 1253-2002 (Amd-1:2013)
Silicon	0.018	JIS G 1253-2002 (Amd-1:2013)
Manganese	0.159	JIS G 1253-2002 (Amd-1:2013)
Nickel	0.011	JIS G 1253-2002 (Amd-1:2013)
Chromium	0.024	JIS G 1253-2002 (Amd-1:2013)
Sulphur	0.004	JIS G 1253-2002 (Amd-1:2013)
Phosphorus	0.013	JIS G 1253-2002 (Amd-1:2013)
Copper	0.014	JIS G 1253-2002 (Amd-1:2013)
Aluminium	0.035	JIS G 1253-2002 (Amd-1:2013)
Titanium	0.001	JIS G 1253-2002 (Amd-1:2013)
Lead	0.001	JIS G 1253-2002 (Amd-1:2013)

Tested by:



Authorized Signatory

Terms & Conditions:

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2. Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
3. Sample will be disposed off after 30 days.
4. The result listed refers only to the tested samples and applicable parameters.





Siddhartha Spectro Pvt. Ltd.

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E-mail: siddharthaspectro@gmail.com Ph. No.: 9560422870, 9717980908, 9873242909, 9810161092

SS/NSF/5.10.1

TEST REPORT NUMBER: 231204138-01 / 1

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : -

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray, Pre Galvanised

Test Report

Program : Fe-10-F

Performance Date : 06-12-2023

Comments : Fe-LA/CS

Performance Time : 19:11:37

Sample ID : 231204138

Discipline : Chemical Group : Metals & Alloys

Element	Observation (%)	Test Method
Iron	99.62	JIS G 1253-2002 (Amd-1:2013)
Molybdenum	<0.0004	JIS G 1253-2002 (Amd-1:2013)
Vanadium	0.0009	JIS G 1253-2002 (Amd-1:2013)
Cobalt	<0.0006	JIS G 1253-2002 (Amd-1:2013)
Tin	<0.0002	JIS G 1253-2002 (Amd-1:2013)
Niobium	<0.0005	JIS G 1253-2002 (Amd-1:2013)
Antimony	0.001	JIS G 1253-2002 (Amd-1:2013)
Boron	0.0002	JIS G 1253-2002 (Amd-1:2013)
Zirconium	<0.0010	JIS G 1253-2002 (Amd-1:2013)
Tungsten	<0.005	JIS G 1253-2002 (Amd-1:2013)

Tested by:

Authorized Signatory

Terms & Conditions:

- 1.The sample description is not verified in all cases and is given "As described by customers". Samples are not drawn by us.
- 2.Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
- 3.Sample will be disposed off after 30 days.
- 4.The result listed refers only to the tested samples and applicable parameters.





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E-mail: siddharthaspectro@gmail.com ; Ph. No.: 9560422870, 9717980908, 9873242909, 9810161092



TC-7270

SS/MSFI5.10.1

Test Report No : 231204138-02

ULR NO : TC727002300011083F

CUSTOMER DETAILS

STEEL KRAFTS

G.T ROAD, PANIPAT, HARYANA - 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO. 2325692

DATE OF RECEIPT 04-12-2023

DATE OF ISSUE 10-12-2023

DESCRIPTION -

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray,
Pre-Galvanised

Test Report

Page 01 of 01

Sample ID : 231204138

Test Method : ASTM B 117:2019

Test Duration : 96 hours

Temperature : 35°C ± 2°C

Start Date : 05-12-2023

Fog Collection : 1 to 2 ml/hr

PH : 6.5 to 7.2

NaCl Solution : 50 ± 10 grams / liter
(min. assay 99.9%; ≤0.1% impurities)

End Date : 09-12-2023

Observations-

Discipline: Chemical ; Group: Corrosion Tests

S.No.	Time Interval	Observations
1.	After 24 hours	No signs of corrosion were observed on the surface of the sample.
2.	After 48 hours	No signs of corrosion were observed on the surface of the sample.
3.	After 72 hours	No signs of corrosion were observed on the surface of the sample.
4.	After 96 hours	No signs of corrosion were observed on the surface of the sample.

Photographic evidence after exposure period -



Note: Observation pertains only to the samples tested, not to its replicates or its batch.



Authorized Signatory

Terms & Conditions:

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2. Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
3. Sample will be disposed off after 30 days.
4. The result listed refers only to the tested samples and applicable parameters.





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E-mail: siddharthaspectro@gmail.com ; Ph.No: 9560422870, 9717980908, 9873242909, 9810161092



TC-7270

SS/MSF/5.10.1

TEST REPORT NUMBER: 231204138-03

ULR NUMBER: TC727002300011092F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray, Pre Galvanised

Test Report

Sample ID : 231204138

Performance Date: 09-12-2023

Test Method: IS 6745-1972 : Mass of Zinc Coating

IS 2633-1986 : Uniformity of Zinc Coating

IS 2629-1985 : Adhesion of Zinc Coating

Discipline: Chemical		Group: Metallic coatings & treatment solutions	
S.No.	Test Parameter	Observations	
1	Mass of Zinc Coating ; g/m ²	102.416 g/m ²	
2	Uniformity of Zinc Coating	Satisfactory	
3	Adhesion of Zinc Coating	Satisfactory	

Note: The observations pertain only to the tested sample(s), not to its replicate or batch.

Tested by :



Authorized Signatory

Terms & Conditions:

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 2. Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
 3. Sample will be disposed off after 30 days and any claim, thereafter, will not be valid.
- ... and applicable parameters, not to their replicates or batch.





Siddhartha Spectro Pvt. Ltd.

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E-mail: siddharthaspectro@gmail.com ; Ph.No: 9560422870, 9717980908, 9873242909, 9810161092



SS/MSF/5.10.1

TEST REPORT NUMBER: 231204138-06

ULR NUMBER : TC727002300011093F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO. 2325692

DATE OF RECEIPT 04-12-2023

DATE OF ISSUE 10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray, Pre Galvanised

Test Report

Sample ID : 231204138

Performance Date: 08-12-2023

Test Method: IS 1608(Pt-1):2022 - Tensile Test

Discipline: Mechanical		Group: Mechanical Properties of Metals	
S.No.	Test Parameter	Observations	
1	Tensile Strength (UTS);MPa	381 MPa	
2	Yield Stress (YS);MPa	254 MPa	
3	Elongation; %	27.4%	

Note: The observations pertain only to the tested sample(s), not to its replicate or batch.

Tested by:

SIDDHARTHA
SPECTRO
SIDDHARTHA
CHIEF EXECUTIVE
Authorized Signatory

Terms & Conditions:

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2. Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
3. Sample will be disposed off after 30 days.
4. The result listed refers only to the tested samples and applicable parameters.





Siddhartha Spectro Pvt. Ltd.

(ISO-9001:2015 Approved Laboratory ; CIN No- U74999DL2021PTC377846)

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E-mail: siddharthaspectro@gmail.com Ph. No.: 9560422870, 9717980908, 9873242909, 9810161092

SS/MSF/5.10.1

TEST REPORT NUMBER: 231204138-07

CUSTOMER DETAILS

STEEL KRAFTS
G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0
EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO. 2325692
DATE OF RECEIPT 04-12-2023
DATE OF ISSUE 10-12-2023

DESCRIPTION-
CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray, Pre Galvanised

Test Report

Sample ID : 231204138

Performance Date: 09-12-2023

Test Method: IS 2102(Part-1):1993 - Dimension Test

Discipline: Mechanical		Group: Mechanical Properties of Metals	
S.No.	Test Parameter	Observations	
1	Material Thickness ; mm	Average = 2.02 mm	
2	Side Support height ; mm	Average = 150.05 mm	
3	Slot Size ; mm	Average = 9.96 mm x 19.98 mm	
4	Coupler Plate ; mm	Average = 160.05 mm x 155.0 mm	

Tested by: 


Authorized Signatory

Terms & Conditions:

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Siddhartha Spectro Pvt. Ltd.

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E-mail: siddharthaspectro@gmail.com ; Ph.No: 9560422870, 9717980908, 9873242909, 9810161092



SS/MSF/5.10.1

TEST REPORT NUMBER: 231204139-01

ULR NUMBER : TC727002300011094F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : -

SAMPLE DETAILS

JOB REGISTRATION NO. 2325692

DATE OF RECEIPT 04-12-2023

DATE OF ISSUE 10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray, Hot Dip Galvanised

Test Report

Program : Fe-10-F

Performance Date : 06-12-2023

Comments : Fe-LA/CS

Performance Time : 19:13:06

Sample ID : 231204139

Discipline : Chemical Group : Metals & Alloys

Element	Observation (%)	Test Method
Carbon	0.032	JIS G 1253-2002 (Amd-1:2013)
Silicon	0.018	JIS G 1253-2002 (Amd-1:2013)
Manganese	0.161	JIS G 1253-2002 (Amd-1:2013)
Nickel	0.011	JIS G 1253-2002 (Amd-1:2013)
Chromium	0.024	JIS G 1253-2002 (Amd-1:2013)
Sulphur	0.004	JIS G 1253-2002 (Amd-1:2013)
Phosphorus	0.013	JIS G 1253-2002 (Amd-1:2013)
Copper	0.013	JIS G 1253-2002 (Amd-1:2013)
Aluminium	0.036	JIS G 1253-2002 (Amd-1:2013)
Titanium	0.001	JIS G 1253-2002 (Amd-1:2013)
Lead	0.002	JIS G 1253-2002 (Amd-1:2013)

Tested by:



Authorized Signatory

Terms & Conditions:

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- Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
- Sample will be disposed off after 30 days.
- The result listed refers only to the tested samples and applicable parameters.





Siddhartha Spectro Pvt. Ltd.

(ISO-9001:2015 Approved Laboratory ; CIN No- U74999DL2021PTC377846)

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E-mail: siddharthaspectro@gmail.com Ph. No.: 9560422870, 9717980908, 9873242909, 9810161092

SS/MSF/5.10.1

TEST REPORT NUMBER: 231204139-01 / 1

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray, Hot Dip Galvanised

Test Report

Program : Fe-10-F

Performance Date : 06-12-2023

Comments : Fe-LA/CS

Performance Time : 19:13:06

Sample ID : 231204139

Discipline : Chemical Group : Metals & Alloys

Element	Observation (%)	Test Method
Iron	99.59	JIS G 1253-2002 (Amd-1:2013)
Molybdenum	<0.0004	JIS G 1253-2002 (Amd-1:2013)
Vanadium	0.0009	JIS G 1253-2002 (Amd-1:2013)
Cobalt	0.0006	JIS G 1253-2002 (Amd-1:2013)
Tin	<0.0002	JIS G 1253-2002 (Amd-1:2013)
Niobium	<0.0005	JIS G 1253-2002 (Amd-1:2013)
Antimony	0.001	JIS G 1253-2002 (Amd-1:2013)
Boron	0.0001	JIS G 1253-2002 (Amd-1:2013)
Zirconium	<0.0010	JIS G 1253-2002 (Amd-1:2013)
Tungsten	<0.005	JIS G 1253-2002 (Amd-1:2013)

Tested by:



Authorized Signatory

Terms & Conditions:

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- 2.Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
- 3.Sample will be disposed off after 30 days.
- 4.The report listed refers only to the tested samples and applicable parameters.





Siddhartha Spectro Pvt. Ltd.

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E-mail: siddharthaspectro@gmail.com ; Ph. No.: 9560422870, 9717980906, 9873242909, 9810161092



TC-7270

SS/MSF/5.10.1

Test Report No : 231204139-02

ULR NO : TC727002300011084F

CUSTOMER DETAILS

STEEL KRAFTS

G.T ROAD, PANIPAT, HARYANA - 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO. : 2325692

DATE OF RECEIPT : 04-12-2023

DATE OF ISSUE : 10-12-2023

DESCRIPTION -

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray,
Hot Dip Galvanised

Test Report

Page 01 of 01

Sample ID : 231204139

Test Method : ASTM B 117:2019

Test Duration : 96 hours

Temperature : 35°C ± 2°C

Start Date : 05-12-2023

Fog Collection : 1 to 2 ml/hr

PH : 6.5 to 7.2

NaCl Solution : 50 ± 10 grams / liter
(min. assay 99.9%; ≤0.1% impurities)

End Date : 09-12-2023

Observations-

Discipline: Chemical ; Group: Corrosion Tests

S.No.	Time Interval	Observations
1.	After 24 hours	No signs of corrosion were observed on the surface of the sample.
2.	After 48 hours	No signs of corrosion were observed on the surface of the sample.
3.	After 72 hours	No signs of corrosion were observed on the surface of the sample.
4.	After 96 hours	No signs of corrosion were observed on the surface of the sample.

Photographic evidence after exposure period -



Note: Observation pertains only to the samples tested, not to its replicates or its batch.



Authorized Signatory

Terms & Conditions:

- The sample description is not verified in all cases and is given "As described by customers". Samples are not drawn by us.
- Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
- Sample will be disposed off after 30 days.
- The result listed refers only to the tested samples and applicable parameters.





Siddhartha Spectro Pvt. Ltd.

(NABL Accredited & ISO-9001:2015 Approved Laboratory)

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CIN No: U74999DL2021PTC377846 ; Website: www.siddharthaspectro.in

E-mail: siddharthaspectro@gmail.com ; Ph.No: 9560422870, 9717980908, 9873242909, 9810161092



TC-7270

SS/MSF/5.10.1

TEST REPORT NUMBER: 231204139-03

ULR NUMBER : TC727002300011095F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO. 2325692

DATE OF RECEIPT 04-12-2023

DATE OF ISSUE 10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray, Hot Dip Galvanised

Test Report

Sample ID : 231204139

Performance Date: 09-12-2023

Test Method: IS 6745-1972 : Mass of Zinc Coating

IS 2633-1986 : Uniformity of Zinc Coating

IS 2629-1985 : Adhesion of Zinc Coating

Discipline: Chemical		Group: Metallic coatings & treatment solutions	
S.No.	Test Parameter	Observations	
1	Mass of Zinc Coating ; g/m ²	1500.40 g/m ²	
2	Uniformity of Zinc Coating	Satisfactory	
3	Adhesion of Zinc Coating	Satisfactory	

Note: The observations pertain only to the tested sample(s), not to its replicate or batch.

Tested by:



Authorized Signatory

Terms & Conditions:

1. The sample description is not verified in all cases and is given "As described by customers". Samples are not drawn by us.
2. Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
3. Sample will be disposed off after 30 days and any claim, thereafter, will not be valid.
4. The result listed refers only to the tested samples and applicable parameters, not to their replicates or batch.





Siddhartha Spectro Pvt. Ltd.

(NABL Accredited & ISO-9001:2015 Approved Laboratory)

Address: Plot No.20, New Mandoli Industrial Area, Shahdara, Delhi-110093

CIN No: U74999DL2021PTC377846 ; Website: www.siddharthaspectro.in

E-mail: siddharthaspectro@gmail.com ; Ph.No: 9560422870, 9717980908, 9873242909, 9810161092



SS/MSF/5.10.1

TEST REPORT NUMBER: 231204139-06

ULR NUMBER : TC727002300011096F

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray, Hot Dip Galvanised

Test Report

Sample ID : 231204139

Performance Date: 08-12-2023

Test Method: IS 1608(Pt-1):2022 - Tensile Test

Discipline: Mechanical		Group: Mechanical Properties of Metals	
S.No.	Test Parameter	Observations	
1	Tensile Strength (UTS);MPa	314 MPa	
2	Yield Stress (YS);MPa	230 MPa	
3	Elongation; %	34.6%	

Note: *The observations pertain only to the tested sample(s), not to its replicate or batch.*

Tested by:



Authorized Signatory

Terms & Conditions:

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- 2.Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
- 3.Sample will be disposed off after 30 days.
- 4.The result listed refers only to the tested samples and applicable parameters.





Siddhartha Spectro Pvt. Ltd.

(ISO-9001:2015 Approved Laboratory ; CIN No- U74999DL2021PTC377846)

Address: Plot No.20, New Mandoli Industrial Area, Shahdara, Delhi-93 Website: www.siddharthaspectro.in

E-mail: siddharthaspectro@gmail.com Ph. No.: 9560422870, 9717980908, 9873242909, 9810161092

SS/MSF/5.10.1

TEST REPORT NUMBER: 231204139-07

CUSTOMER DETAILS

STEEL KRAFTS

G.T. ROAD, PANIPAT, Panipat, Haryana, 132103

PHONE : 0

EMAIL : --

SAMPLE DETAILS

JOB REGISTRATION NO.

2325692

DATE OF RECEIPT

04-12-2023

DATE OF ISSUE

10-12-2023

DESCRIPTION-

CABLE TRAY SAMPLE , 300x150x2mm Ladder Tray, Hot Dip Galvanised

Test Report


Sample ID : 231204139

Performance Date: 09-12-2023

Test Method: IS 2102(Part-1):1993 - Dimension Test

Discipline: Mechanical		Group: Mechanical Properties of Metals	
S.No.	Test Parameter	Observations	
1	Material Thickness ; mm	Average = 2.06 mm	
2	Side Support height ; mm	Average = 150.10 mm	
3	Slot Size ; mm	Average = 9.92 mm x 19.94 mm	
4	Coupler Plate ; mm	Average = 160.10 mm x 155.06 mm	

Tested by: 


Authorized Signatory

Terms & Conditions:

- 1.The sample description is not verified in all cases and is given "As described by customers". Samples are not drawn by us.
- 2.Total liability of our work is limited to the invoice amount and no liability will be accepted after the sample is returned.
- 3.Sample will be disposed off after 30 days.
- 4.The result listed refers only to the tested samples and applicable parameters.





National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SIDDHARTHA SPECTRO PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

PLOT NO. 20, NEW MANDOLI INDUSTRIAL AREA, SHAHDARA, DELHI, INDIA

in the field of

TESTING

Certificate Number: TC-7270

Issue Date: 10/09/2022

Valid Until: 09/09/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : SIDDHARTHA SPECTRO PRIVATE LIMITED

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SIDDHARTHA SPECTRO PRIVATE LIMITED, PLOT NO. 20, NEW MANDOLI INDUSTRIAL AREA, SHAHDARA, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7270 **Page No** 1 of 15

Validity 10/09/2022 to 09/09/2024 **Last Amended on** 20/10/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Anodized Products / Panels	Salt Spray Test (CASS)	ASTM B368
2	CHEMICAL- CORROSION TESTS	Anodized Products / Panels	Salt Spray Test (CASS)	IS 5528
3	CHEMICAL- CORROSION TESTS	Coated Products / Panels	Salt Spray Test (CASS)	ASTM B368
4	CHEMICAL- CORROSION TESTS	Coated Products / Panels	Salt Spray Test (CASS)	IS 5528
5	CHEMICAL- CORROSION TESTS	Coated Products / Panels	Salt Spray Test (CASS)	ISO 9227
6	CHEMICAL- CORROSION TESTS	Coated Products / Panels	Salt Spray Test (NSS)	ISO 9227
7	CHEMICAL- CORROSION TESTS	Coated Products / Panels	Salt Spray Test(NSS)	ASTM B117
8	CHEMICAL- CORROSION TESTS	Galvanized Products / Panels	Salt Spray Test (CASS)	ISO 9227
9	CHEMICAL- CORROSION TESTS	Galvanized Products / Panels	Salt Spray Test (NSS)	ISO 9227
10	CHEMICAL- CORROSION TESTS	Painted Products / Panels	Salt Spray Test (CASS)	IS 5528
11	CHEMICAL- CORROSION TESTS	Painted Products / Panels	Salt Spray Test (NSS)	ASTM B117
12	CHEMICAL- CORROSION TESTS	Plastic and Polymer Components	Salt Spray Test (CASS)	ISO 9227
13	CHEMICAL- CORROSION TESTS	Plastic and Polymer Components	Salt Spray Test (NSS)	ASTM B117
14	CHEMICAL- CORROSION TESTS	Plastic and Polymer Components	Salt Spray Test (NSS)	ISO 9227
15	CHEMICAL- CORROSION TESTS	Plated Products / Panels	Salt Spray Test (CASS)	ASTM B368
16	CHEMICAL- CORROSION TESTS	Plated Products / Panels	Salt Spray Test (CASS)	IS 5528
17	CHEMICAL- CORROSION TESTS	Plated Products / Panels	Salt Spray Test (CASS)	ISO 9227
18	CHEMICAL- CORROSION TESTS	Plated Products / Panels	Salt Spray Test (NSS)	ASTM B117



National Accreditation Board for Testing and Calibration Laboratories

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
19	CHEMICAL- CORROSION TESTS	Plated Products / Panels	Salt Spray Test (NSS)	ISO 9227
20	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Ferrous materials, alloys & products	Phosphate Coating Test	IS 3618
21	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Ferrous Metals & Alloys	Adhesion of Coating (Knife Test)	IS:2629
22	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Ferrous Metals & Alloys	Mass of Zinc Coating	IS:6745
23	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Ferrous Metals & Alloys	Uniformity of Zinc Coating	IS:2633
24	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E1251
25	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E1251
26	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E1251
27	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E1251
28	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E1251
29	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E1251
30	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM E1251
31	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM E1251
32	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E1251
33	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E1251
34	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Vanadium	ASTM E1251
35	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM E1251



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Accreditation Standard ISO/IEC 17025:2017

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Validity 10/09/2022 to 09/09/2024 **Last Amended on** 20/10/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
36	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	JIS G 1253
37	CHEMICAL- METALS & ALLOYS	Cast Iron	Antimony	JIS G 1253
38	CHEMICAL- METALS & ALLOYS	Cast Iron	Arsenic	JIS G 1253
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Boron	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	JIS G 1253
42	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	JIS G 1253
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Cobalt	JIS G 1253
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	JIS G 1253
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Lead	JIS G 1253
48	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	JIS G 1253
50	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
51	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	JIS G 1253
52	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
53	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	JIS G 1253
54	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E1999



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Accreditation Standard ISO/IEC 17025:2017

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Validity 10/09/2022 to 09/09/2024 **Last Amended on** 20/10/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
55	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	JIS G 1253
56	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
57	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	JIS G 1253
58	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
59	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	JIS G 1253
60	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999
61	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	JIS G 1253
62	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999
63	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	JIS G 1253
64	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	JIS G 1253
65	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	IS EN 15079
66	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Antimony	IS EN 15079
67	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Arsenic	IS EN 15079
68	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Bismuth	IS EN 15079
69	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	IS EN 15079
70	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	IS EN 15079
71	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	IS EN 15079
72	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	IS EN 15079
73	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorus	IS EN 15079



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Accreditation Standard ISO/IEC 17025:2017

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Validity 10/09/2022 to 09/09/2024 **Last Amended on** 20/10/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
74	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Sulphur	IS EN 15079
75	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	IS EN 15079
76	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	IS EN 15079
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	JIS G 1253
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
79	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G 1253
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G 1253
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS:9879
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253
89	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
90	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G 1253
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
95	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G 1253
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	JIS G 1253
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253
101	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Aluminium	JIS G 1253
102	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Antimony	ASTM E415
103	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Boron	JIS G 1253
104	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Carbon	JIS G 1253
105	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Chromium	JIS G 1253
106	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Cobalt	JIS G 1253
107	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Copper	JIS G 1253
108	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Lead	JIS G 1253
109	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Manganese	JIS G 1253
110	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Molybdenum	JIS G 1253
111	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Nickel	JIS G 1253



National Accreditation Board for Testing and Calibration Laboratories

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
112	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Niobium	JIS G 1253
113	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Phosphorus	JIS G 1253
114	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Silicon	JIS G 1253
115	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Sulphur	JIS G 1253
116	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Tin	JIS G 1253
117	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Titanium	JIS G 1253
118	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Vanadium	JIS G 1253
119	CHEMICAL- METALS & ALLOYS	Steel (Low Alloy & Carbon Steel)	Zirconium	JIS G 1253
120	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Aluminium	ASTM E415
121	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Boron	ASTM E415
122	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Carbon	ASTM E415
123	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Chromium	ASTM E415
124	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Cobalt	ASTM E415
125	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Copper	ASTM E415
126	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Manganese	ASTM E415
127	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Molybdenum	ASTM E415
128	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Nickel	ASTM E415
129	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Niobium	ASTM E415
130	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Phosphorus	ASTM E415



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
131	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Silicon	ASTM E415
132	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Sulphur	ASTM E415
133	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Tin	ASTM E415
134	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Titanium	ASTM E415
135	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Vanadium	ASTM E415
136	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Steel)	Titanium	ASTM E 415
137	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Aluminium	IS 2599
138	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Cadmium	IS 2599
139	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Copper	IS 2599
140	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Iron	IS 2599
141	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Lead	IS 2599
142	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Magnesium	IS 2599
143	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Manganese	S,S/SOP/Zn-1 (Issue Dt-24,04,18)
144	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Nickel	S,S/SOP/Zn-1 (Issue Dt-24,04,18)
145	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Tin	IS 2599
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	0,2% Proof Stress	IS 1608-1
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Bend Test (Mandrel Diameter: 4mm, 6mm, 8mm, 12mm, 16mm, 20mm, 24mm, 36mm, 50 mm)	IS 1599



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Accreditation Standard ISO/IEC 17025:2017

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Validity 10/09/2022 to 09/09/2024 **Last Amended on** 20/10/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Brinell Hardness (2,5/187,5)	IS 1501 (Part-1)
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Brinell Hardness Test (10/3000)	IS 1500 (Part 1)
150	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Brinell Hardness Test (HBW5/750)	IS 1501(Part-1)
151	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Elongation	ASTM E8/E8M
152	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Elongation	IS 1608-1
153	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Flattening Test	IS 2328
154	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Reduction of Area	ASTM E8/8M
155	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Reduction of Area	IS 1608-1
156	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Rockwell Hardness Test (C-Scale)	IS 1586 (Part 1)
157	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Rockwell Hardness Test (HRBW)	IS 1586 (Part 1)
158	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Tensile Strength	ASTM E8/E8M
159	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Tensile Strength	IS 1608-1
160	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Vickers Hardness Test(HV0,3)	IS 1501 (Part 1)
161	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Yield Stress by extensometer method	ASTM E8/E8M



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162	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Yield Stress by offset method (software)	IS 1608-1
163	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Breaking Load Test	ASTM E8/E8M
164	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Breaking Load Test	IS 1608 (Part-1)
165	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers hardness Test(HV0.5)	IS:1501(PART-1)
166	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness Test(HV1)	IS:1501(PART-1)
167	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness Test(HV10)	IS:1501(Part-1)
168	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness Test(HV30)	IS:1501(Part-1)
169	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Vickers Hardness Test(HV5)	IS:1501(Part-1)
170	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Breaking Load Test	ASTM E8/E8M
171	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Breaking Load Test	IS 1608 (Part-1)
172	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test(HV0.5)	IS:1501(Part-1)
173	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test(HV1)	IS:1501(Part-1)
174	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test(HV10)	IS:1501(Part-1)
175	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test(HV30)	IS:1501(Part-1)



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176	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness Test(HV5)	IS:1501(Part-1)
177	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	0,2% Proof Stress	IS 1608-1
178	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Brinell Hardness Test	IS 1500 (Part 1)
179	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Brinell Hardness Test (10/3000)	IS 1501 (Part-1)
180	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Brinell Hardness Test (2,5/187,5)	IS 1501 (Part-1)
181	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Brinell Hardness Test (5/750)	IS 1501(Part-1)
182	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Drifting Test	IS 2335
183	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Elongation	ASTM E8/E8M
184	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Elongation	IS 1608-1
185	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Flattening Test	IS 2328
186	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Reduction of Area	ASTM E8/E8M
187	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Reduction of Area	IS 1608-1
188	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Rockwell Hardness Test (HRBW)	IS 1586 (Part 1)
189	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Rockwell hardness Test (HRC)	IS 1586 (Pt-1)



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190	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Tensile Strength	ASTM E8/E8M
191	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Tensile Strength	IS 1608-1
192	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Vickers Hardness Test(HV0.3)	IS 1501 (Part 1)
193	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Yield Stress	ASTM E8/E8M
194	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Yield Stress	IS 1608-1
195	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Yield stress by extensometer method	ASTM E8/E8M
196	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys- Fasteners	Proof Load Test	IS 1367 (Part 14)
197	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys- Fasteners	Proof Load Test	IS 1367 (Part 6)
198	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys- Fasteners	Proof Load Test	IS 1367(Part 3)
199	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys- Fasteners	Tensile Strength	IS 1367 (Part 14)
200	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys- Fasteners	Tensile Strength	IS 1367 (Part 3)
201	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Bend Test (Mandrel Diameter: 4mm, 6mm, 8mm, 12mm, 16mm, 20mm, 24mm, 36mm, 50 mm)	IS 1599
202	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous materials, alloys & products	Breaking Load Test	ASTM E8/E8M



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203	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	0,2% Proof Stress	IS 1608-1
204	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Bend Test (Mandrel Diameter: 4mm, 6mm, 8mm, 12mm, 16mm, 20mm, 24mm, 36mm, 50 mm)	IS 1599
205	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Brinell Hardness Test (10/3000)	IS 1500 (Part 1)
206	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Brinell Hardness Test (2,5/187,5)	IS 1501 (Part-1)
207	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Brinell Hardness Test (5/750)	IS 1501 (Part-1)
208	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Drifting Test	IS 2335
209	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Elongation	ASTM E8/E8M
210	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Elongation	IS 1608-1
211	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Flattening Test	IS 2328
212	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Reduction of Area	ASTM E8/E8M
213	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Reduction of Area	IS 1608-1
214	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Rockwell Hardness Test (HRBW)	IS 1586 (Part 1)
215	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Rockwell Hardness Test (HRC)	IS 1586 (Pt-1)



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216	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Tensile Strength	ASTM E8/E8M
217	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Tensile Strength	IS 1608-1
218	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Vickers Hardness Test(HV0,3)	IS 1501 (Pt-1)
219	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Yield Stress	ASTM E8/E8M
220	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Yield Stress	IS 1608-1
221	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Yield Stress by extensometer method	ASTM E8/E8M
222	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	Breaking Load Test	IS 1608 (Part-1)
223	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test(HV0,5)	IS:1501(Part-1)
224	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test(HV1)	IS:1501(Part-1)
225	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test(HV10)	IS:1501(Part-1)
226	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test(HV30)	IS:1501(Part-1)
227	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Vickers Hardness Test(HV5)	IS:1501(Part-1)
228	MECHANICAL- METALLOGRAPHY TEST	Cast Iron	Designation of Microstructure of Graphite in Cast Iron(size,type & distribution) by chart comparison method	IS 7754
229	MECHANICAL- METALLOGRAPHY TEST	Copper materials, alloys & products	Microstructure Evaluation	ASM Handbook Vol.9



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230	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous Metals & Alloys	Measurement of Metal and Oxide Coating/Plating Thickness by Microscopic Examination	ASTM B487
231	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Average Grain Size measurement by Comparison Method	ASTM E112
232	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Effective Case Depth (ECD) by Hardness Method	IS 6416
233	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Microstructure evaluation	ASM Handbook Vol.9
234	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Total Case Depth Test	IS 6416
235	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Average Grain Size Measurement by Comparison Method	IS 4748
236	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Alloys	Depth of Decarburization Test	IS 6396
237	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Alloys	Inclusion Rating by Method A	ASTM E45
238	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Alloys	Inclusion Rating by method A	IS 4163