



Quality first & forever



KAILTECH

Test & Research Centre Pvt. Ltd.

LRN: KTRC/2501006303

Page 1 of 1

TEST REPORT

ULR:TC78322500000410F

KTRC/QF/0708/01

Table with customer details, laboratory reference number, date of receipt, condition, packing, quantity, and sample identification.

TEST RESULTS

Table with 6 columns: S.NO, PARAMETER, UNIT, RESULTS, TEST METHOD, SPECIFICATIONS. Contains 5 test entries.

End of Report



Electronically signed by Er. Savar Surana Assistant Manager Authorised Signatory (For Mechanical Chemical - Metals Alloys)

Date: 14/01/2025

Plot No. 141 C, Electronic Complex, Parkeshwara, Indore - 452010 (INDIA) Ph. +91-731-4787555 (30 Lines), 4046055, 4048055 Email : contact@kailtech.net, electronics@kailtech.net Web : www.kailtech.com CIN - U73100MP2006PTC019006

Terms of Service: 1. This Report/Certificate is available after customer's acceptance of our terms and conditions. 2. This Report/Certificate cannot be reproduced or the report be used in part or full in any media unless permitted by our writing. 3. If this Report/Certificate has been electronically generated, it does not require any wet/physical signature in original. 4. Liability of our laboratory is limited to the invoice amount only. 5. All disputes subject to jurisdiction of the courts of Indore (India) only. Testing: 1. Samples are drawn by us, unless specified. 2. The results listed in the Test Report are for the selected samples and tested parameters only. 3. Sample is likely to be consumed and/or destroyed during testing. 4. Sample will be returned/shipped as per our Procedure and acceptance. Calibration: 1. This Certificate refers only to the instruments used. 2. IUC - In-house Calibration. 3. The calibration results reported in this certificate are valid at the time of & the tested condition of measurement. 4. The Reported uncertainty is at coverage factor k=2 which corresponds to a coverage probability of approximately 95% for normal distribution. 5. All measurements are traceable to National/International Standards. 6. Calibration Certificates issued for weight & measure parameter i.e. Mass, Volume and Measuring Scale/Tram etc. are for calibration purposes only and should not be used for trade/commercial use. 7. Calibration is performed without doing any adjustment or correction in its original condition at the time of receipt, unless specified.

An ISO 9001:2015 Certified Laboratory



TEST REPORT

ULR:TC78322500000411F

KTRC/QF/0708/01

Name and Address of Customer RAIL VIKAS NIGAM LIMITED Indore Project Implementation Unit, RVNL Casting Yard, Near TCS Chauraha, Super Corridor, Palakhedi Road, Indore (M.P.), 453111	Laboratory Reference Number (LRN)	KTRC/2501006403
	Date of Receipt	03.01.2025
	Condition, When Received	Satisfactory
	Packing, When Received	Packed
	Quantity Received (Approx.)	1 No's
	Date of Start Of Test	10.01.2025
Sample Identification: Steel Conduit	Date of Completion	13.01.2025
	Date of Reporting	14.01.2025
Customer Reference :- Letter Ref. No. RVNL/MPMRC/Indore/IN02/Kailtech/01233 Dated 02.01.2025, Name of Work : Design and Construction of Seven (7) Elevated Metro Rail Stations including Viaduct portion within the stations and Transitions spans on either side of the stations, Entry-Exit Structures, Architectural Finishes, E&M Works etc. (ISBT/MR 10 Flyover, Chandragupta square, Hira Nagar, Bapat Square, Meghdoot Garden, Vijay Nagar Square & Redisson Square)" of Indore Metro Rail Project. (Package- IN02).		
Sample Particulars : Specification for Conduits for Electrical Insulations Part 2 - Rigid Steel Conduits as per IS 9537 (Part 2) : 1981 Grade : NA GI Conduit Box, S.No. 2,		

TEST RESULTS

S.NO	PARAMETER	UNIT	RESULTS	TEST METHOD	SPECIFICATIONS
1	Thickness	mm	1.72	KTRC/MECH/SOP/02	1.4 - 1.8
2	Mass of Zinc Coating Triple Spot Test	g/m ²	466	IS 6745 : 1972	-
3	Mass of Zinc Coating Single Spot Test	g/m ²	458	IS 6745 : 1972	-
4	Uniformity of Zinc Coating	-	No red deposit of copper observed	IS 2633 : 1986	Shall not show any red deposit of copper
5	Bend Test	-	No Cracks Observed	IS 2329 : 2005	Shall not show any sign of cracks.

****End of Report****



Electronically signed by
Er. Sanar Surana
Assistant Manager
Authorised Signatory (For Mechanical
Chemical - Metals
Alloys)

Date: 14/01/2025

Plot No. 141 C, Electronic Complex, Palakhedi, Indore - 452010 (INDIA) Ph. +91-731-4787555 (30 Lines), 4046055, 4048055
Email : contact@kailtech.net, electronics@kailtech.net ♦ Web : www.kailtech.com ♦ CIN - U73100MP2006PTC019006

Terms of Service : General:- 1. This Report/Certificate is issued only after customer's acceptance of our terms and conditions. 2. This Report/Certificate cannot be reproduced or used in part or in any way without permission of our company. 3. This Report/Certificate is the property of Kailtech and requires our physical signature in original. 4. Liability of our laboratory is limited to the invested amount only. 5. All reports subject to availability of the parts of value (not only testing). 6. Sample(s) not drawn by us, unless specified. 7. The results listed in the Test Report are for the submitted samples and listed parameters only. 8. Sample is likely to be re-examined or obstructed during testing. 9. Sample will be returned/disposed as per our Procedure and acceptance. **Collaboration :-** 1. This Certificate refers only to the data obtained. 2. IVE - Gold Under Collaboration. 3. The submission results reported in this certificate are valid at the time of & the total duration of measurement. 4. The reported uncertainty is at coverage factor k=2 which corresponds to a coverage probability of approximately 95% for normal distribution. 5. All measurements are traceable to National/International Standards. 6. Calibration Certificates issued for weight & measure parameter i.e. Mass, Volume and length using Inaly/Tenax etc. are for scientific purpose and should not be used for trade/commercial use. 7. Calibration is performed without doing any adjustment or correction in its original condition at the time of receipt, unless specified.

TEST REPORT

Test Report Issued To:

SUDHIR POWER PROJECTS LTD.

5TH FLOOR, 507, INTERNATIONAL TRADE TOWER, NEHRU PLACE,
DELHI, DELHI - 110019,
INDIA

Test Report No: D250204038/D250204038-10
Issue Date: 19-Feb-2025
Sample Booking/Receipt Date: 04-Feb-2025
Test Start Date: 13-Feb-2025
Test Completion Date: 15-Feb-2025



Customer Relationship Number 79982

Sample Description :
25MM DIA GI CONDUIT



Customer Reference No :
PO NO- SPPL/DE 12/ 206, DT- 03-02-2025

Kind Attention : OMPAL SINGH
E-Mail: ompalsingh@sudhirpower.com Contact No: 9810863784

Sample Condition : Good
Sample Quantity (Approx) : 1 - Nos Sample Size (Approx) : NA - mm

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED



Digitally signed by
SUMIT KUMAR
Date: 2025.02.19
10:32:42 +05:30

Report Issued By

Authenticity of report can be verified by mail at verification@spectrolab.in
This is a Digitally Signed Report and hence doesn't require Physical Signature.

Legal Entity: Spectro Analytical Labs Private Limited (formerly Spectro Analytical Labs Limited), CIN : U74220DL1998PTC092698
(part of Eurofins Scientific SE)

S-1, GNEPIP, Surajpur Industrial Area, Phase-V, Kasna, Greater Noida-201308 (India)
+91-120-2341252, +91-11-40522000, +91-11-41611000 | www.spectro.in | care@spectro.in

TEST REPORT

ID-D250204038-1

1. DIMENSIONS TEST:

Test method : IS: 9537-1981 (Part-2)

Observation :

Sample No.	Thickness (mm)	Outside diameter (mm)
1	1.75	25.06
2	1.73	25.01
3	1.76	24.95
4	1.79	24.96
5	1.73	25.05
Mean	1.75	25.01

Sumit Kumar
 SUMIT KUMAR
 Reviewed By

Digitally signed by
 SUMIT KUMAR
 Date: 2025.02.19
 10:32:42 +05:30

Authorised Signatory

Legal Entity: Spectro Analytical Labs Private Limited (formerly Spectro Analytical Labs Limited), CIN : U74220DL1998PTC092698
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 +91-120-2341252, +91-11-40522000, +91-11-41611000 | www.spectro.in | care@spectro.in

TEST REPORT

2. BIS MARKING (Visual)

Test method : IS: 9537-1981 (Part-2)

Observation:

BIS Marking	Visual Observation
	Conforms


SUMIT KUMAR
Reviewed By


Digitally signed by
SUMIT KUMAR
Date: 2025.02.19
10:32:42 +05:30
Authorised Signatory

TEST REPORT

4. COMPRESSION TEST

(At 1250 N applied load for 60second)

Test method : IS: 9537-1981 (Part-1 & 2)

Test condition : At 27±2°C and 65±5% RH for 10 hours.
 Applied Load : 1250 N (Heavy)
 Force applied for : 60second

Observation:

Sr. No.	After compression (Difference between before and after diameter) change (%)
1	0.24
2	0.27
3	0.23
4	0.29
5	0.24
Mean	0.25


 SUMIT KUMAR
 Reviewed By


 Digitally signed by
 SUMIT KUMAR
 Date: 2025.02.19
 10:32:42 +05:30

Authorised Signatory

TEST REPORT

5. BENDING AT 90° TEST

Test method : IS: 9537-1981 (Part-2)

Test condition : At 27±2°C and 65±5% RH for 10 hours.

Observation:

	Visual Observation
Bending at 90° angle	Appropriate Gauge (16mm) is pass through the conduit under its own weight and without any initial speed.

Sumit Kumar
 SUMIT KUMAR
 Reviewed By

Digitally signed by
 SUMIT KUMAR
 Date: 2025.02.19
 10:32:42 +05:30

Authorised Signatory

TEST REPORT

6. IMPACT TEST:

Test method : IS: 9537-1981 (Part-2)
Test condition : Pre-conditioned at 60±2°C for 10 Days.
 Force : 2.0 kg
 Test Temp : - 5±2°C for 2 hours
 Drop height : 300mm
 Total No. of drop : 12 drops

Observation Result

Impact	Visual Observation
	No sign of failure

Sumit Kumar
 SUMIT KUMAR
 Reviewed By

Digitally signed by
 SUMIT KUMAR
 Date: 2025.02.19
 10:32:42 +05:30
 Authorised Signatory

General Terms & Conditions

Spectro Analytical Labs Private Limited (formerly Spectro Analytical Labs Limited) undertakes to provide service to its customer subject to the terms & conditions mentioned here-

1. Area of Application

1.1 All Orders accepted by Spectro Analytical Labs Private Limited (formerly Spectro Analytical Labs Limited) (Collectively "ES") will be governed by these General Terms and Conditions of Sales (the "Terms and Conditions"), including orders placed by telephone which have not been confirmed in writing and orders made by delivery of samples. A contract with these Terms and Conditions comes into being when an order that has been placed with ES is accepted by ES. An order placed with ES is considered as accepted by ES when (a) ES proceeds to fulfil that order, without need for any written confirmation from ES or (b) ES accept the order in writing.

1.2 All reports will be issued with the legal name i.e. Spectro Analytical Labs Private Limited (formerly Spectro Analytical Labs Limited)

1.3 These Terms and Conditions supersede and replace all prior verbal or written price quotations and agreements between the parties and, unless specifically indicated otherwise therein, take precedence over all conflicting or inconsistent provisions of subsequent written agreements between the parties. No officer (other than the Managing Director of ES), employee, agent or subcontractor of ES has the authority to alter or waive any of these Terms and Conditions or to make any representation which conflicts with or purports to override any of these Terms and Conditions; and no such alteration, waiver or representation shall be binding upon ES, unless it is in writing and signed by the Managing Director of ES.

2. Placement of Order

2.1 A customer order will be valid only if it is sent by mail or fax or other electronic message on letterhead of the customer or by using ES-approved sample Test request form or electronic order forms and the commercial aspects of the order which are not specifically set out in these Terms and Conditions (including price, estimated turnaround times and delivery date) must be agreed at the time of the order. The customer must confirm in writing orders given by telephone immediately after they are made and will be deemed to have placed an order if the customer sends samples to ES quoting the customer reference. ES is not obligated to start any work unless the order is clear and it has been provided all required information.

2.2 Unless specifically accepted in writing and signed by the Managing Director of ES, any terms proposed or submitted by a customer at any time (including, but not limited to, terms or provisions in the customer's purchase order-instructions or other document) which differ from these Terms and Conditions are rejected as a material alteration of these Terms and Conditions and shall be of no force or effect. Furthermore, special terms or conditions of prior orders, including special pricing, will not automatically apply to subsequent orders. Each order accepted by ES will be treated as a separate contract between ES and the customer.

2.3 Any logistic service off-site of the laboratory must be paid in full, unless it has been cancelled or modified by the customer at least forty eight hours (48) in advance for collection services, ninety six (96) hours in advance for sampling services and one (1) week in advance for auditing services.

3. Price and Terms of Payment

3.1 If the acknowledgment of an order does not state otherwise, ES' prices apply "ex works", excluding packaging, which is charged separately. Any additional cost or disbursement (e.g. incurred by ES in connection with the order) must be paid by the customer.

3.2 Prices are exclusive of all applicable taxes (GST or Other taxes) and are based on tariffs in force at the day of the remittance of the order. Applicable taxes are those in force at the date of invoicing.

3.3 Unless specifically agreed otherwise by ES in its acceptance of an order, payment of all invoices is due strictly within 30 days of the invoice date. Any dispute about invoices must be raised within 30 days of the invoice date. The challenge of any test result will not entitle a customer to defer payment. Any invoice which remains outstanding after due date, may be additionally charged with an administrative penalty of Rupees Two hundred (Rs.200) and may carry interest as per MSMED Act.

3.4 Invoices are subject to a minimum invoice charge of Rupees Two Hundred fifty (Rs.250).

3.5 The invoice settlement method is Cheque, bank transfer or direct debit. Any other method of payment must receive prior agreement from ES. The customer undertakes to provide bank account details.

3.6 ES is entitled to require payment of up to 100% of the quoted order price as a condition of acceptance.

4. Duties of Customer in Delivering Samples or Materials

4.1 The samples or materials must be in a condition that makes the preparation of reports/analyses or the production of ordered products possible without difficulty. ES is entitled to conduct an initial examination of the samples or materials to check their condition before processing the samples, drawing up a report or using them in production. The customer shall bear the costs of this initial examination, if the samples or materials do not comply with the requirements described in this clause 4.1. If the result of the initial examination is that an analysis or production is impossible or is possible only under more difficult conditions than originally anticipated e.g. for example, because the samples or materials have been interspersed with foreign materials or substances that were not reported by the customer or are degraded ES shall be entitled to terminate or interrupt the order and the customer shall bear costs incurred by ES to that point.

4.2 The customer must ensure, and hereby warrants, that no sample poses any danger, inducing on its site, during transportation, in the laboratory or otherwise to ES premises, instruments, personnel or representatives. It is the customer's responsibility to insure compliance with hazardous waste regulations, including regarding information, transportation and disposal and to inform ES personnel or representatives about sample health and safety concerns, including any known or suspected toxic or other contaminant that may be present in the sample and its likely level of contamination as well as the risks to ES premises, instruments, personnel and representatives related to the contamination. The customer shall be responsible for, and indemnifies ES against, all costs, damages, liabilities and injuries that may be caused to or incurred by ES or its personnel or representatives including on the sampling site, during the transportation or in the laboratory by the customer's sample or by sampling site conditions. The customer shall bear all extraordinary costs for adequate disposal of hazardous waste resulting from the sample, whether or not described as hazardous waste. At ES' request, the customer must provide ES with the exact composition of the samples.

5. Property Rights on Sample Material and Sample Storage

5.1 All samples become the property of ES to the extent necessary for the performance of the order. Unless the customer pays for storage, ES shall have no obligation or liability for samples sent to ES for storage, including samples requiring refrigeration however ES retains the sample for three months. If the customer pays for further storage, ES will take commercially reasonable steps to store the samples, according to professional practice.

5.2 Sample will be kept for one month from the date of release of test report unless specified by regulatory or ES and the customer have agreed in writing on the terms of ES' retention of the sample. ES also can dispose of or destroy the samples after the agreed upon retention period, without further notice and at customer's cost, should an extra cost for ES arise to comply with any regulation (for example, with respect to disposal of hazardous waste). If the customer requests the return of unneeded sample material, ES will return them to the customer, at the customer's cost and risk.

5.3 The sample description is not verified in all cases and is given "as described by customer". Sample not drawn by us and analysis conducted on "as received bases". Unless specified otherwise

5.4 Lab retain the copy of report for 2 years from the date of release of test report or instructed by customer or any regulatory requirement and authenticity of test report can be verified within 2 years by sending mail at verification@spectrolab.in

6. Delivery Dates, Turnaround Time

6.1 Delivery dates and turnaround times are estimates and do not constitute a commitment by ES. Nevertheless, ES shall make commercially reasonable efforts to meet its estimated deadlines.

6.2 Results are generally sent by email and/or by mail, or via other electronic means, to the attention of the persons indicated by the customer in the order, promptly after the analysis is completed.

7. Transfer of Property

7.1 Title in any analysis results, products, equipment, software or similar supplied by ES to the customer will remain with ES until all invoices in respect thereof have been paid by the customer in full, and until such full payment, the customer shall have no property rights or other rights to use them. In addition, even if ES has accepted and begun to fulfil an order, ES has the right at any time stop processing that order and to stop doing any work for a customer if that customer is late in paying any amount due to ES, whether for that or any other order.

7.2 Even after payment in full by the customer, ES shall retain the right to store, use and publish all analysis results in an anonymous form which does not identify the customer.

8. Limited Warranties and responsibilities

8.1 Orders are handled in the conditions available to ES in accordance with the current state of technology and methods developed and generally applied by ES and the results may not always be 100% exact and/ or relevant. Analyses, interpretations, assessments, consulting work and conclusions are prepared with a commercially reasonable degree of care but ES cannot guarantee that these will always be correct or absolute. This limited warranty expires three months after the delivery date of the samples, if the acknowledgement of the order does not specifically state otherwise. In all cases, the customer must independently verify the validity of any results, interpretations, assessments and conclusions supplied by ES, if it wishes to rely on the same in respect of matters of importance and shall do so at its own risk.

8.2 Each testing report relates exclusively to the sample analyzed by ES. If ES has not expressly been mandated and paid for the definition of the sampling plan (including which samples of which raw materials and finished products and at which frequent should be analyzed) and the definition of the precise range of analysis to be performed or if the customer has not followed ES recommendations, ES shall not bear any responsibility if the sampling plan and/or the range of analysis to be performed prove to be insufficient or inappropriate.

8.3 The customer is responsible for the proper delivery of samples sent to ES for examination/analyses or materials sent for production. Unless otherwise specifically agreed in writing by ES, ES accepts no responsibility for any loss or damage, which may occur to any sample in transit or to any facility or site where logistics services are being delivered. The customer will at all times be liable for the security, packaging and insurance of the sample from its dispatch until it is delivered to the offices or the laboratories of ES. ES will use commercially reasonable care in handling and storing samples, but ES shall not be held responsible for any loss or destruction of samples even after their receipt at its laboratories.

8.4 The customer warrants and represents to ES that all samples sent to ES for analysis are safe and in a stable condition and undertakes to indemnify ES for any losses, injuries, claims and costs which ES, or its personnel, may suffer as a result of any sample not being in a safe or stable condition, notwithstanding that the customer may have given an indication on the sample or any order form of any perceived problem with the sample. The customer must always inform ES in writing prior to shipment and label the packaging, samples and/ or containers appropriately, if the samples are dangerous or otherwise of a hazardous nature.

8.5 Unless explicitly agreed in writing by all parties, the contractual relationship shall be exclusively between the customer and ES. There shall be no third party beneficiary or collateral warranty relating to any order and the customer shall indemnify and hold ES harmless from and against any and all third party claims in any way relating to the customer or to the order by the customer.

8.6 The result given on the test report refer only to tested samples and application parameters.

8.7 Any complaints about the test report should be communicated in writing within 7 days of the issue of the report

9. Limitation of Liability

9.1 Except to the extent that such limitations are not permitted or void under applicable law: (a) ES (together with its workers, office clerks, employees, representatives, managers, officers, directors, agents and consultants and all ES partners and affiliates, the "ES Indemnifying Parties") shall be liable only for the proven direct and immediate damage caused by the ES Indemnifying Party's willful misconduct in connection with the performance of an order and then, only if ES has received written notice thereof not later than six (6) months after the date of the customer's knowledge of the relevant claim (unless any longer period is prescribed under applicable law and cannot be contractually limited), and (b) in all cases (whether arising under contract, tort, negligence, strict liability, through indemnification or otherwise), the ES Indemnifying Parties' liability per claim or series of related claims, and the customer's exclusive remedy, with respect to ES' services which fall under these Terms and Conditions, shall be limited to the lesser of: (i) the direct and immediate loss or damage caused by the ES Indemnifying Party's willful misconduct in connection with the performance of the order and (ii) invoice amount ES actually received from the customer in relation to the order subject to maximum of Rs. 1 lac (Rupees One Lac)

9.2 The ES Indemnifying Parties shall not be liable for any indirect, direct or consequential loss or damage (including, but not limited to, loss of business, profits, goodwill, and business opportunities or similar) incurred by the customer or by any third party.

9.3 It is a condition of ES' acceptance of an order that the customer indemnifies the ES Indemnifying Parties for any losses, injuries, claims and costs which the ES Indemnifying Parties may suffer as a result of arising from or in any way connected with its role under or services or products or software provided pursuant to these Terms and Conditions, except to the extent that the ES Indemnifying Parties are required to bear them according to these Terms and Conditions, and by placing an order the customer agrees to provide that indemnification.

10. Repeated Analysis

Objections to test results can be made within thirty (30) days after the customer receives the results. However, unless it would appear that the results of the repeated analysis do not match those of the first one, the customer shall bear the costs of the repeat testing or review. Furthermore, a repeated analysis will be possible only if ES has a sufficient amount of the original sample on hand when it receives the customer's objection. Otherwise the customer will be required to pay all costs, including sampling, transportation, analytical and disposal costs for the repeat analysis. No retest request will be accepted after return of tested sample.

11. Force Majeure

ES cannot be held liable for delays, errors, damages or other problems caused by events or circumstances which are unforeseen or beyond ES' reasonable control, or which result from compliance with governmental requests, laws and regulations.

12. Confidentiality & Processing of Customer Data

12.1 ES shall be entitled to save and process personal or commercial data received from the customer in any way, no matter whether such data stem from the customer directly or from a third party and shall use commercially reasonable efforts to keep such data confidential, in compliance with applicable law.

12.2 ES shall use commercially reasonable efforts to keep all analysis results and service reports confidential, subject to ES' rights set forth in clause 7.2 and the right to use them in order to demonstrate its entitlement to payment for services rendered.

12.3 Analysis results are prepared and supplied exclusively for the use of the customer and should not be divulged to a third party for any purposes without the prior written agreement of ES. In addition, the customer is required to maintain secrecy concerning all services provided by ES and their results as well as the composition of products and software delivered by ES. Analysis results are not to be publicly disclosed or exploited without the prior written consent of ES. Even if such written consent is given by ES, the customer (a) remains responsible for any consequences due to the divulgence such results to a third party and any reliance of such third party on such results and (b) hereby agrees to indemnify the ES Indemnified Parties against any liability which the ES Indemnified Parties may incur as a result of such divulgence or any such third party reliance.

12.4 Test report certificate shall not be reproduced except in full, without written permission of laboratory

12.5 Test report certificate shall not be reproduced wholly or in parts and cannot be used as an evidence in a court of law and shall not be used in advertising media, without written permission of laboratory

13. Disclaimer and Miscellaneous

13.1 ALL TERMS, CONDITIONS AND WARRANTIES (INCLUDING ANY IMPLIED WARRANTY AS TO MERCHANTABILITY QUALITY OR FITNESS FOR A PARTICULAR PURPOSE) AS TO THE MANNER, QUALITY AND TIMING OF THE TESTING SERVICE AND RESULTS, EQUIPMENT, PRODUCTS OR SOFTWARE SUPPLIED BY ES ARE EXCLUDED TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW. THE WARRANTIES, OBLIGATIONS AND LIABILITIES OF ES CONTAINED IN THESE TERMS AND CONDITIONS ARE EXCLUSIVE.

13.2 These Terms and Conditions may be modified in writing from time to time by ES and orders will be governed by the most recent version of these Terms and Conditions that is in effect at the time ES accepts the order.

13.3 Should a court waive, limit or hold to be invalid, illegal or unenforceable any part of these Terms and Conditions, all other parts shall still apply to the greatest extent possible.

13.4 Failure by either ES or the customer to exercise the rights under these Terms and Conditions shall not constitute a waiver or forfeiture of such rights.

14. Governing Law Jurisdiction

14.1 The construction, validity and performance of these Terms and Conditions shall be governed by the laws and the commercial courts of Delhi Jurisdiction, Delhi State, India in which the registered office of the ES company which accepted the order in question is located (including in cases involving multiple counsels for the defense or third-party respondents), which shall have exclusive jurisdiction.

* End of Report *

Legal Entity: Spectro Analytical Labs Private Limited (formerly Spectro Analytical Labs Limited), CIN: U74220DL1998PTC092698

(part of Eurofins Scientific SE)

S-1, GNEPIP, Surajpur Industrial Area, Phase-V, Kasna, Greater Noida-201308 (India)

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TEST REPORT

Test Report Issued To:

SUDHIR POWER PROJECTS LTD.

 5TH FLOOR, 507, INTERNATIONAL TRADE TOWER, NEHRU PLACE,
 DELHI, DELHI - 110019,
 INDIA

Test Report No: D250204038/D250204038-21
 Issue Date: 12-Feb-2025
 Sample Booking/Receipt Date: 04-Feb-2025
 Test Start Date: 06-Feb-2025
 Test Completion Date: 12-Feb-2025



Customer Relationship Number 79982

Sample Description :
 25MM DIA GI CONDUIT



Customer Reference No :
 PO NO- SPPL/DE 12/ 206, DT- 03-02-2025

Kind Attention : OMPAL SINGH
 E-Mail: ompalsingh@sudhirpower.com Contact No: 9810863784

Sample Condition : Good
 Sample Quantity (Approx) : 1 - Nos Sample Size (Approx) : NA - mm

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED



ULR-TC1024525000002303F

Digitally signed
 by Rahul Singh
 Date: 2025.02.12
 11:47:13 +05:30

Report Issued By

Authenticity of report can be verified by mail at verification@spectrolab.in
 This is a Digitally Signed Report and hence doesn't require Physical Signature.

Legal Entity: Spectro Analytical Labs Private Limited (formerly Spectro Analytical Labs Limited), CIN : U74220DL1998PTC092698
 (part of Eurofins Scientific SE)

E-41, Okhla Industrial Area, Phase-II, New Delhi-110020 (India)
 +91-11-40522000, 41611000 | www.spectro.in | care@spectro.in

TEST REPORT

Discipline	Chemical
Group	Metallic Coatings & Treatment Solutions
Product	Metallic Coatings

ID-D250204038-2

Mass of Zinc Coating Analysis Test			
S. No.	Test Name	Result	Test Method
1.	Mass of Zinc coating, g/m ²	678.85	IS: 6745-1972 (RA- 2021)

S. No.	Tests	Observations	Test Method
1	Uniformity of Coating (1st Dip, Lasting one minute)	It does not show any adherent of red deposit of copper upon the base metal	IS: 2633-1986 (RA-2021)
	Uniformity of Coating (2nd Dip, Lasting one minute)	It does not show any adherent of red deposit of copper upon the base metal	
	Uniformity of Coating (3rd Dip, Lasting one minute)	It does not show any adherent of red deposit of copper upon the base metal	
	Uniformity of Coating (4th Dip, Lasting one minute)	It does not show any adherent of red deposit of copper upon the base metal	

Amit Vashishtha
AMIT VASHISHTHA
Reviewed By



TC-10245



ULR-TC102452500002303F

Digitally signed
by Rahul Singh
Date: 2025.02.12
11:47:13 +05:30

Authorised Signatory

Legal Entity: Spectro Analytical Labs Private Limited (formerly Spectro Analytical Labs Limited). CIN : U74220DL1998PTC092698
(part of Eurofins Scientific SE)

E-41, Okhla Industrial Area, Phase-II, New Delhi-110020 (India)
+91-11-40522000, 41611000 | www.spectro.in | care@spectro.in

General Terms & Conditions of Sale

Spectro Analytical Labs Pvt Ltd, (formerly Spectro analytical labs Ltd) undertakes to provide service to its customer subject to the terms & conditions mentioned here-

1. Area of Application

- 1.1 All Orders accepted by Spectro Analytical Labs Pvt Ltd, (formerly Spectro analytical labs Ltd) (Collectively "ES") will be governed by these General Terms and Conditions of Sales (the "Terms and Conditions"), including orders placed by telephone which have not been confirmed in writing and orders made by delivery of samples. A contract with these Terms and Conditions comes into being when an order that has been placed with ES is accepted by ES. An order placed with ES is considered as accepted by ES when (a) ES proceeds to fulfil that order, without need for any written confirmation from ES or (b) ES accept the order in writing.
- 1.2 All reports will be issued with the legal name i.e. **Spectro Analytical Labs Pvt Ltd**, (formerly Spectro analytical labs Ltd)
- 1.3 These Terms and Conditions supersede and replace all prior verbal or written price quotations and agreements between the parties and, unless specifically indicated otherwise therein, take precedence over all conflicting or inconsistent provisions of subsequent written agreements between the parties. No officer (other than the Managing Director of ES), employee, agent or subcontractor of ES has the authority to alter or waive any of these Terms and Conditions or to make any representation which conflicts with or purports to override any of these Terms and Conditions; and no such alteration, waiver or representation shall be binding upon ES, unless it is in writing and signed by the Managing Director of ES.

2. Placement of Order

- 2.1 A customer order will be valid only if it is sent by mail or fax or other electronic message on letterhead of the customer or by using ES-approved sample Test request form or electronic order forms and the commercial aspects of the order which are not specifically set out in these Terms and Conditions (including price, estimated turnaround times and delivery date) must be agreed at the time of the order. The customer must confirm in writing orders given by telephone immediately after they are made and will be deemed to have placed an order if the customer sends samples to ES quoting the customer reference. ES is not obligated to start any work unless the order is clear and it has been provided all required information.
- 2.2 Unless specifically accepted in writing and signed by the Managing Director of ES, any terms proposed or submitted by a customer at any time (including, but not limited to, terms or provisions in the customer's purchase order-instructions or other document) which differ from these Terms and Conditions are rejected as a material alteration of these Terms and Conditions and shall be of no force or effect. Furthermore, special terms or conditions of prior orders, including special pricing, will not automatically apply to subsequent orders. Each order accepted by ES will be treated as a separate contract between ES and the customer.
- 2.3 Any logistic service off-site of the laboratory must be paid in full, unless it has been cancelled or modified by the customer at least forty eight hours (48) in advance for collection services, ninety six (96) hours in advance for sampling services and one (1) week in advance for auditing services.

3. Price and Terms of Payment

- 3.1 If the acknowledgment of an order does not state otherwise, ES' prices apply "ex works", excluding packaging, which is charged separately. Any additional cost or disbursement (e.g. incurred by ES in connection with the order) must be paid by the customer.
- 3.2 Prices are exclusive of all applicable taxes (GST or Other taxes) and are based on tariffs in force at the day of the remittance of the order to the customer. Applicable taxes are those in force at the date of invoicing.
- 3.3 Unless specifically agreed otherwise by ES in its acceptance of an order, payment of all invoices is due strictly within 30 days of the invoice date. Any dispute about invoices must be raised within 30 days of the invoice date. The challenge of any test result will not entitle a customer to defer payment. Any invoice which remains outstanding after due date, may be additionally charged with an administrative penalty of Rupees Two hundred (Rs.200) and may carry interest as per MSMED Act.
- 3.4 Invoices are subject to a minimum invoice charge of Rupees Two Hundred fifty (Rs.250).
- 3.5 The invoice settlement method is Cheque, bank transfer or direct debit. Any other method of payment must receive prior agreement from ES. The customer undertakes to provide bank account details.
- 3.6 ES is entitled to require payment of up to 100% of the quoted order price as a condition of acceptance.

4. Duties of Customer in Delivering Samples or Materials

- 4.1 The samples or materials must be in a condition that makes the preparation of reports/analyses or the production of ordered products possible without difficulty. ES is entitled to conduct an initial examination of the samples or materials to check their condition before processing the samples, drawing up a report or using them in production. The customer shall bear the costs of this initial examination, if the samples or materials do not comply with the requirements described in this clause 4.1. If the result of the initial examination is that an analysis or production is impossible or is possible only under more difficult conditions than originally anticipated e.g. for example, because the samples or materials have been interspersed with foreign materials or substances that were not reported by the customer or are degraded + ES shall be entitled to terminate or interrupt the order and the customer shall bear costs incurred by ES to that point.
- 4.2 The customer must ensure, and hereby warrants, that no sample poses any danger, inducing on its site, during transportation, in the laboratory or otherwise to ES premises, instruments, personnel or representatives. It is the customer's responsibility to insure compliance with hazardous waste regulations, including regarding information, transportation and disposal and to inform ES personnel or representatives about sample health and safety concerns, including any known or suspected toxic or other contaminant that may be present in the sample and its likely level of contamination as well as the risks to ES premises, instruments, personnel and representatives related to the contamination. The customer shall be responsible for, and indemnifies ES against, all costs, damages, liabilities and injuries that may be caused to or incurred by ES or its personnel or representatives including on the sampling site, during the transportation or in the laboratory by the customer's sample or by sampling site conditions. The customer shall bear all extraordinary costs for adequate disposal of hazardous waste resulting from the sample, whether or not described as hazardous waste. At ES' request, the customer must provide ES with the exact composition of the samples.

5. Property Rights on Sample Material and Sample Storage

- 5.1 All samples become the property of ES to the extent necessary for the performance of the order. Unless the customer pays for storage, ES shall have no obligation or liability for samples sent to ES for storage, including samples requiring refrigeration however ES retains the sample for three months. If the customer pays for further storage, ES will take commercially reasonable steps to store the samples, according to professional practice.
- 5.2 Sample will be kept for one month from the date of release of test report unless specified by regulatory or ES and the customer have agreed in writing on the terms of ES' retention of the sample. ES also can dispose of or destroy the samples after the agreed upon retention period, without further notice and at customer's cost, should an extra cost for ES arise to comply with any regulation (for example, with respect to disposal of hazardous waste). If the customer requests the return of unneeded sample material, ES will return them to the customer, at the customer's cost and risk.
- 5.3 The sample description is not verified in all cases and is given "as described by customer". Sample not drawn by us and analysis conducted on "as received bases". Unless specified otherwise
- 5.4 Lab retain the copy of report for 2 years from the date of release of test report or instructed by customer or any regulatory requirement and authenticity of test report can be verified within 2 years by sending mail at verification@spectrolab.in

6. Delivery Dates, Turnaround Time

- 6.1 Delivery dates and turnaround times are estimates and do not constitute a commitment by ES. Nevertheless, ES shall make commercially reasonable efforts to meet its estimated deadlines.
- 6.2 Results are generally sent by email and/or by mail, or via other electronic means, to the attention of the persons indicated by the customer in the order, promptly after the analysis is completed.

7. Transfer of Property

- 7.1 Title in any analysis results, products, equipment, software or similar supplied by ES to the customer will remain with ES until all invoices in respect thereof have been paid by the customer in full, and until such full payment, the customer shall have no property rights or other rights to use them. In addition, even if ES has accepted and begun to fulfil an order, ES has the right at any time stop processing that order and to stop doing any work for a customer if that customer is late in paying any amount due to ES, whether for that or any other order.
- 7.2 Even after payment in full by the customer, ES shall retain the right to store, use and publish all analysis results in an anonymous form which does not identify the customer.

8. Limited Warranties and responsibilities

- 8.1 Orders are handled in the conditions available to ES in accordance with the current state of technology and methods developed and generally applied by ES and the results may not always be 100% exact and/ or relevant. Analyses, interpretations, assessments, consulting work and conclusions are prepared with a commercially reasonable degree of care but ES cannot guarantee that these will always be correct or absolute. This limited warranty expires three months after the delivery date of the samples, if the acknowledgement of the order does not specifically state otherwise. In all cases, the customer must independently verify the validity of any results, interpretations, assessments and conclusions supplied by ES, if it wishes to rely on the same in respect of matters of importance and shall do so at its own risk.
- 8.2 Each testing report relates exclusively to the sample analyzed by ES. If ES has not expressly been mandated and paid for the definition of the sampling plan (including which samples of which raw materials and finished products and at which frequent should be analyzed) and the definition of the precise range of analysis to be performed or if the customer has not followed ES recommendations, ES shall not bear any responsibility if the sampling plan and/or the range of analysis to be performed prove to be insufficient or inappropriate.
- 8.3 The customer is responsible for the proper delivery of samples sent to ES for examination/analyses or materials sent for production. Unless otherwise specifically agreed in writing by ES, ES accepts no responsibility for any loss or damage, which may occur to any sample in transit or to any facility or site where logistics services are being delivered. The customer will at all times be liable for the security, packaging and insurance of the sample from its dispatch until it is delivered to the offices or the laboratories of ES. ES will use commercially reasonable care in handling and storing samples, but ES shall not be held responsible for any loss or destruction of samples even after their receipt at its laboratories.
- 8.4 The customer warrants and represents to ES that all samples sent to ES for analysis are safe and in a stable condition and undertakes to indemnify ES for any losses, injuries, claims and costs which ES, or its personnel, may suffer as a result of any sample not being in a safe or stable condition, notwithstanding that the customer may have given an indication on the sample or any order form of any perceived problem with the sample. The customer must always inform ES in writing prior to shipment and label the packaging, samples and/ or containers appropriately, if the samples are dangerous or otherwise of a hazardous nature.
- 8.5 Unless explicitly agreed in writing by all parties, the contractual relationship shall be exclusively between the customer and ES. There shall be no third party beneficiary or collateral warranty relating to any order and the customer shall indemnify and hold ES harmless from and against any and all third party claims in any way relating to the customer or to the order by the customer.
- 8.6 The result given on the test report refer only to tested samples and application parameters.
- 8.7 Any complaints about the test report should be communicated in writing within 7 days of the issue of the report

9. Limitation of Liability

- 9.1 Except to the extent that such limitations are not permitted or void under applicable law: (a) ES (together with its workers, office clerks, employees, representatives, managers, officers, directors, agents and consultants and all ES partners and affiliates, the "ES Indemnifying Parties") shall be liable only for the proven direct and immediate damage caused by the ES Indemnifying Party's willful misconduct in connection with the performance of an order and then, only if ES has received written notice thereof not later than six (6) months after the date of the customer's knowledge of the relevant claim (unless any longer period is prescribed under applicable law and cannot be contractually limited), and (b) in all cases (whether arising under contract, tort, negligence, strict liability, through indemnification or otherwise), the ES Indemnifying Parties' liability per claim or series of related claims, and the customer's exclusive remedy, with respect to ES' services which fall under these Terms and Conditions, shall be limited to the lesser of: (i) the direct and immediate loss or damage caused by the ES Indemnifying Party's willful misconduct in connection with the performance of the order and (ii) invoice amount ES actually received from the customer in relation to the order subject to maximum of Rs. 1 lac (Rupees One Lac)
- 9.2 The ES Indemnifying Parties shall not be liable for any indirect, direct or consequential loss or damage (including, but not limited to, loss of business, profits, goodwill, and business opportunities or similar) incurred by the customer or by any third party.
- 9.3 It is a condition of ES' acceptance of an order that the customer indemnifies the ES Indemnifying Parties for any losses, injuries, claims and costs which the ES Indemnifying Parties may suffer as a result of arising from or in any way connected with its role under or services or products or software provided pursuant to these Terms and Conditions, except to the extent that the ES Indemnifying Parties are required to bear them according to these Terms and Conditions, and by placing an order the customer agrees to provide that indemnification.

10. Repeated Analysis

10. Objections to test results can be made within thirty (30) days after the customer receives the results. However, unless it would appear that the results of the repeated analysis do not match those of the first one, the customer shall bear the costs of the repeat testing or review. Furthermore, a repeated analysis will be possible only if ES has a sufficient amount of the original sample on hand when it receives the customer's objection. Otherwise the customer will be required to pay all costs, including sampling, transportation, analytical and disposal costs for the repeat analysis. No retest request will be accepted after return of tested sample.

11. Force Majeure

11. ES cannot be held liable for delays, errors, damages or other problems caused by events or circumstances which are unforeseen or beyond ES' reasonable control, or which result from compliance with governmental requests, laws and regulations.

12. Confidentiality & Processing of Customer Data

- 12.1 ES shall be entitled to save and process personal or commercial data received from the customer in any way, no matter whether such data stem from the customer directly or from a third party and shall use commercially reasonable efforts to keep such data confidential, in compliance with applicable law.
- 12.2 ES shall use commercially reasonable efforts to keep all analysis results and service reports confidential, subject to ES' rights set forth in clause 7.2 and the right to use them in order to demonstrate its entitlement to payment for services rendered.
- 12.3 Analysis results are prepared and supplied exclusively for the use of the customer and should not be divulged to a third party for any purposes without the prior written agreement of ES. In addition, the customer is required to maintain secrecy concerning all services provided by ES and their results as well as the composition of products and software delivered by ES. Analysis results are not to be publicly disclosed or exploited without the prior written consent of ES. Even if such written consent is given by ES, the customer (a) remains responsible for any consequences due to the divulgence such results to a third party and any reliance of such third party on such results and (b) hereby agrees to indemnify the ES Indemnified Parties against any liability which the ES Indemnified Parties may incur as a result of such divulgence or any such third party reliance.
- 12.4 Test report certificate shall not be reproduced except in full, without written permission of laboratory
- 12.5 Test report certificate shall not be reproduced wholly or in parts and cannot be used as an evidence in a court of law and shall not be used in advertising media, without written permission of laboratory

13. Disclaimer and Miscellaneous

- 13.1 ALL TERMS, CONDITIONS AND WARRANTIES (INCLUDING ANY IMPLIED WARRANTY AS TO MERCHANTABILITY QUALITY OR FITNESS FOR A PARTICULAR PURPOSE) AS TO THE MANNER, QUALITY AND TIMING OF THE TESTING SERVICE AND RESULTS, EQUIPMENT, PRODUCTS OR SOFTWARE SUPPLIED BY ES ARE EXCLUDED TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW. THE WARRANTIES, OBLIGATIONS AND LIABILITIES OF ES CONTAINED IN THESE TERMS AND CONDITIONS ARE EXCLUSIVE.
- 13.2 These Terms and Conditions may be modified in writing from time to time by ES and orders will be governed by the most recent version of these Terms and Conditions that is in effect at the time ES accepts the order.
- 13.3 Should a court waive, limit or hold to be invalid, illegal or unenforceable any part of these Terms and Conditions, all other parts shall still apply to the greatest extent possible.
- 13.4 Failure by either ES or the customer to exercise the rights under these Terms and Conditions shall not constitute a waiver or forfeiture of such rights.

14. Governing Law Jurisdiction

- 14.1 The construction, validity and performance of these Terms and Conditions shall be governed by the laws and the commercial courts of Delhi Jurisdiction, Delhi State, India in which the registered office of the ES company which accepted the order in question is located (including in cases involving multiple counsels for the defense or third-party respondents), which shall have exclusive jurisdiction.

* End of Report *

Legal Entity: Spectro Analytical Labs Private Limited (formerly Spectro Analytical Labs Limited), CIN: U74220DL1998PTC092698
 (part of Eurofins Scientific SE)

E-41, Okhla Industrial Area, Phase-II, New Delhi-110020 (India)

+91-11-40522000, 41611000 | www.spectro.in | care@spectro.in



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TEST REPORT



TC-7016

Date	: 03.02.2023	ULR No.	: TC701623000000907
Report No.	: KDMTL/2301280001		
Name & Address of Customer	: URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 20MM GI PIPE-200MM		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 20.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter : URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhosh Nagar)* For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m ²	IS 6745 : 1972	446	-

AUTHORIZED SIGNATORY
Name - Piyesh Gangele
Designation - Technical Manager

**** END OF REPORT ****



Notes:

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- The sample will be stored upto three month from the date of issue of test report unless otherwise specified.

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**TEST REPORT**

TC-7016

Date	: 03.02.2023	ULR No.	: TC701623000000988
Report No.	: KDMTL/2301280002		
Name & Address of Customer	: URC Construction (P) LTD, MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 25MM GI Bend-200MM		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m ²	IS 6745 : 1972	510	-

AUTHORIZED SIGNATORY
Name - Prayesh Gangele
Designation - Technical Manager

**** END OF REPORT ****

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TEST REPORT



TC-7016

Date	: 03.02.2023	ULR No.	: TC701623000000989
Report No.	: KDMTL/2301280003		
Name & Address of Customer	: URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 32MM GI Bend-200MM		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL -Bhopal Metro LOA Letter No. : 1179 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portals within the stations and Transition spans on either side of the stations (AIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m2	IS 6745 : 1972	538	-

AUTHORIZED SIGNATORY

Name : Ajayesh Gangele
Designation : Technical Manager

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TEST REPORT



TC-7016

Date	: 03.02.2023	ULR No.	: TC70162300000990
Report No.	: KDMTL/2301280004		
Name & Address of Customer	URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 32MM GI PIPE-200MM		
Letter Ref. No.	: BH-02-URC-MFP-1TR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations Including Viaduct portion within the stations and Transition spans on either side of the stations (Allims, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m ²	IS 6745 : 1972	501	

AUTHORIZED SIGNATORY
Name - Prayesh Gangele
Designation - Technical Manager

**** END OF REPORT ****



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TEST REPORT



Date	: 03.02.2023	ULR No.	: TC70162300000991
Report No.	: KDMTL/2301280005		
Name & Address of Customer	: URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 32MM GI PIPE-200MM		
Letter Ref. No.	: RH-02-URC-MEP-LTR-00007	Dated	: 27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m2	IS 6745 : 1972	583	-

AUTHORIZED SIGNATORY
Name - Prayash Gangele
Designation - Technical Manager

**** END OF REPORT ****



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TEST REPORT



Date	: 03.02.2023	ULR No.	: TC70162300000992
Report No.	: KDMTL/2301280006		
Name & Address of Customer	URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 25MM GI PIPE-200MM		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AllMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m2	IS 6745 : 1972	554	-

AUTHORIZED SIGNATORY
Name - Prakash Gangele
Designation - Technical Manager

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TEST REPORT



Date	: 03.02.2023	ULR No.	: TC70162300000993
Report No.	: KDMTL/2301280007		
Name & Address of Customer	: URC Construction (P) LTD, MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 25MM GI PIPE-200MM		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (0) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (Allims, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project. Tender Notification No: 354/MPMRCL/2021/Package BH-02 EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m ²	IS 6745 : 1972	511	-

AUTHORIZED SIGNATORY
Name - Prayesh Ganjele
Designation - Technical Manager

**** END OF REPORT ****



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TEST REPORT



Date	: 03.02.2023	ULR No.	: TC701623000000994
Report No.	: KDMTL/2301280006		
Name & Address of Customer	URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 20MM GI PIPE-200MM		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter. URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m2	IS 6745 : 1972	456	-

AUTHORIZED SIGNATORY
Name : Piyesh Gangele
Designation : Technical Manager

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**TEST REPORT**

TC-7016

Date	: 03.02.2023	ULR No.	: TC701623000000995
Report No.	: KDMTL/2301280009		
Name & Address of Customer	: URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 20MM GI PIPE-200MM		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (Ailms, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m ²	IS 6745 : 1972	502	

AUTHORIZED SIGNATORY
Name: *Ajyesh Gangele*
Designation: Technical Manager

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TEST REPORT



TC-7016

Date	: 03.02.2023	ULR No.	: TC701623000000996
Report No.	: KDMTL/2301280010		
Name & Address of Customer	: URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 25MM GI Coupler		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m2	IS 6745 : 1972	435	-

AUTHORIZED SIGNATORY
Name - Prayesh Gangele
Designation - Technical Manager

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TEST REPORT



TC-7016

Date	: 03.02.2023	ULR No.	: TC701623000000997
Report No.	: KDMTL/2301280011		
Name & Address of Customer	URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 32MM GI Coupler		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m ²	IS 6745 : 1972	450	-

AUTHORIZED SIGNATORY
Name - Priyest Gangele
Designation - Technical Manager

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TEST REPORT



TC-7016

Date	: 03.02.2023	ULR No.	: TC70162300000998
Report No.	: KDMTL/2301280012		
Name & Address of Customer	: URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 25MM JB 1 Way		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/U01 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and transition spans on either side of the stations (Ailms, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021, Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m2	IS 6745 : 1972	561	-

AUTHORIZED SIGNATORY
Name: Prayesh Ganjele
Designation: Technical Manager

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TEST REPORT



Date	: 03.02.2023	ULR No.	: TC701623000000999
Report No.	: KDMTL/2301280013		
Name & Address of Customer	URC Construction (P) LTD, MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 25MM JB 2 Way		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone 1, DB City Mall, Kendriya Vidyalaya and Subhashi Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m2	IS 6745 : 1972	603	-

AUTHORIZED SIGNATORY
Name: Animesh Gangele
Designation: Technical Manager

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**TEST REPORT**

TC-7016

Date	: 03.02.2023	ULR No.	: TC701623000001000
Report No.	: KDMTL/2301280014		
Name & Address of Customer	: URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 32MM JD 3 Way		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 20.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalyaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m ²	IS 6745 : 1972	482	-

AUTHORIZED SIGNATORY
Name: Prayesh Gangele
Designation: Technical Manager

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TEST REPORT



Date	: 03.02.2023	ULR No.	: TC701623000001001
Report No.	: KDMTL/2301280015		
Name & Address of Customer	: URC Construction (P) LTD. MUMUKSHU PROJECT, Bhopal, Madhya Pradesh, India		
Material	: 32MM JB 3 Way		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m2	IS 6745 : 1972	515	-

AUTHORIZED SIGNATORY
Name - Prayesh Gandeke
Designation - Technical Manager

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TEST REPORT



TC-7016

Date	: 03.02.2023	ULR No.	: TC701623000001002
Report No.	: KDMTL/2301280016		
Name & Address of Customer	: URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 20MM JB 02 Way		
Letter Ref. No.	: BH-02-JRC-MEP-LTR-00007	Dated:	: 27.01.2023
Date of Sample Receiving	: 20.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro IOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BII-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m2	IS 6745 : 1972	456	-

AUTHORIZED SIGNATORY
Name: Prakash Gangele
Designation: Technical Manager

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TEST REPORT



Date	: 03.02.2023	ULR No.	: TC701623000001003
Report No.	: KDMTL/Z301280017		
Name & Address of Customer	: URC Construction (P) LTD. MPMRCL Project, Bhopal, Madhya Pradesh, India		
Material	: 20MM JB 02 Way		
Letter Ref. No.	: BH-02-URC-MEP-LTR-00007	Dated:	27.01.2023
Date of Sample Receiving	: 28.01.2023		
Date of Sample Testing	: 02.02.2023		
Ref. 1	: MPMRCL-Bhopal Metro LOA Letter No. : 1479 / MPMRCL / 2021 Dated 12.11.2021		
Ref. 2	: LOA Acceptance Letter: URC/MPMRCL-Bhopal/2021-2022/001 Dated: 15.11.2021		
Contract No.	: BH-02: "Design and Construction of Eight (8) Elevated Metro Rail Stations including Viaduct portion within the stations and Transition spans on either side of the stations (AIMS, Alkapuri, Habibganj Naka, Ranikamlapati, M.P. Nagar Zone-1, DB City Mall, Kendriya Vidyalaya and Subhash Nagar)" For Bhopal Metro Rail Project, Tender Notification No: 354/MPMRCL/2021/Package BH-02-EIB, Date 31.03.2021. Dated 03.01.2022		

Chemical Properties

Sr.No.	Test Parameter	Unit	Test Method	Test Result	Requirement
1	Mass of Zinc Coating	g/m2	IS 6745 : 1972	467	-

AUTHORIZED SIGNATORY

Name - Privesh Gangele
Designation - Technical Manager

**** END OF REPORT ****



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+91 1276-661500, 8130453334

www.alphatesthouse.com

TEST REPORT

Test Report No.:	ATL2351012023		Letter Date:	22/08/2023	
Name and Address of Customer :	Assistant Engineer (E) – II, CENTRAL PUBLIC WORKS DEPARTMENT Faridabad Electrical Sub Division-II, Central Govt. Office Complex, NH-IV, Faridabad – 121001.				
Sample Received Date :	23/08/2023	Start Date of Analysis :	24/08/2023		
Report Issue Date :	01/09/2023	End Date of Analysis :	31/08/2023		
Sample Name :	MS Conduit Pipe – 20mm				
Description of the Sample :	Agmt. 04/Electrical				
Sample Drawn By :	By Customer	Grade /Type/Class/Size/etc. :	20 mm		
Name of Work :	Special repair including Rehabilitation, Retrofitting and augmentation of ESIC Hospital cum Residential Complex at Sec-08, Faridabad.				
Sample Quantity Received :	3 Pcs of 1 Mtr.	Environmental Condition :	N/A		
Batch No./Lot No. :	N/A	Brand Name, if any (Make) :	Steel Kraft		
Mode of Packing :	N/A	Component Value :	N/A		
Reference No. :	23(ESIC)/A.E(E)-II/F.E.Sb.D/2023-24/268				
Declared Value if any :	N/A				
Name of Agency :	M/s A.K. Constructions	Indian Standard Reference :	IS:9537(P-II)-1981		
Agreement No. :	Electrical 04/EE(E)/FED/2023-24 Civil 02/EE/FD/2023-24	Location of Sampling point :	N/A		
Any Other Information (if any) :	N/A				
Test Report Form No. :	ATHB/7.8/F01				
Test Report Form(s) Originator :	Alpha Test House, Bahadurgarh				
Issue No. & Issue Date :	02 & 31/12/2022				
Amendment No. & Date :	00_				

Test Results

Sr. No.	Test Parameters	Units of Measurements	Results	Requirement as per IS: 9537 (P-II)-1981, Reaf-2017	Method Reference
1.	Outside diameter, Clause 7.1	mm	19.98	20+0 -0.3	IS: 9537(P-II)-1981, Reaf-2017
2.	Thickness, Clause 7.1	mm	1.61	1.4 to 1.8	IS: 9537(P-II)-1981, Reaf-2017
3.	Compression test the difference between the initial diameter and the diameter of flattened sample, Clause, 9.3.2	%	1.5	10 Max	IS: 9537(P-I)-1980, Reaf-2020
4.	Bending Test	-	Passes the Test	Shall be capable of being bent cold, without cracking of the Steel, Through 90° round	IS: 9537(P-II)-1981, Reaf-2017

Remarks:- The Sample Conforms to IS: 9537 (P-II)-1981 for M.S. Conduit Pipe w. r. t. the above tests only.

****End of Report****


For Alpha Test House
Verified By



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TEST REPORT

Test Report No.:	ATL2351022023	Letter Date :	22/08/2023
Name and Address of Customer :	Assistant Engineer (E) – II, CENTRAL PUBLIC WORKS DEPARTMENT Faridabad Electrical Sub Division-II, Central Govt. Office Complex, NH-IV, Faridabad – 121001.		
Sample Received Date :	23/08/2023	Start Date of Analysis :	24/08/2023
Report Issue Date :	01/09/2023	End Date of Analysis :	31/08/2023
Sample Name :	MS Conduit Pipe – 25mm		
Description of the Sample :	Agmt. 04/Electrical		
Sample Drawn By :	By Customer	Grade /Type/Class/Size/etc. :	25 mm
Name of Work :	Special repair including Rehabilitation, Retrofitting and augmentation of ESIC Hospital cum Residential Complex at Sec-08, Faridabad.		
Sample Quantity Received :	3 Pcs of 1 Mtr.	Environmental Condition :	N/A
Batch No./Lot No. :	N/A	Brand Name, if any (Make) :	Steel Kraft
Mode of Packing :	N/A	Component Value :	N/A
Reference No. :	23(ESIC)/A.E(E)-II/F.E.Sb D/2023-24/268		
Declared Value if any :	N/A	Indian Standard Reference :	IS:9537(P-II)-1981
Name of Agency :	M/s A.K. Constructions	Location of Sampling point :	N/A
Agreement No. :	Electrical 04/EE(E)/FED/2023-24 Civil 02/EE/FD/2023-24		
Any Other Information (if any) :	N/A		
Test Report Form No. :	ATHB/7.8/F01		
Test Report Form(s) Originator :	Alpha Test House, Bahadurgarh		
Issue No. & Issue Date :	02 & 31/12/2022		
Amendment No. & Date :	00_		

Test Results

Sr. No.	Test Parameters	Units of Measurements	Results	Requirement as per IS: 9537 (P-II)-1981, Reaf-2017	Method Reference
1.	Outside diameter, Clause 7.1	mm	24.96	25+0 -0.4	IS: 9537(P-II)-1981, Reaf-2017
2.	Thickness, Clause 7.1	mm	1.64	1.4 to 1.8	IS: 9537(P-II)-1981, Reaf-2017
3.	Compression test the difference between the initial diameter and the diameter of flattened sample, Clause, 9.3.2	%	1.4	10 Max	IS: 9537(P-II)-1980, Reaf-2020
4.	Bending Test	-	Passes the Test	Shall be capable of being bent cold, without cracking of the Steel, Through 90° round	IS: 9537(P-II)-1981, Reaf-2017

Remarks:- The Sample Conforms to IS: 9537 (P-II)-1981 for M.S. Conduit Pipe w. r. t. the above tests only.

****End of Report****


 For Alpha Test House
 Verified By



H. Off. : M-577, Guru Harkishan Nagar, Paschim Vihar, New Delhi-110087 (India)
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TEST REPORT

Test Report No.:	ATL2351032023		Letter Date:	22/08/2023	
Name and Address of Customer :	Assistant Engineer (E) – II, CENTRAL PUBLIC WORKS DEPARTMENT Faridabad Electrical Sub Division-II, Central Govt. Office Complex, NH-IV, Faridabad – 121001.				
Sample Received Date :	23/08/2023	Start Date of Analysis :	24/08/2023		
Report Issue Date :	01/09/2023	End Date of Analysis :	31/08/2023		
Sample Name :	MS Conduit Pipe – 32mm				
Description of the Sample :	Agmt. 04/Electrical				
Sample Drawn By :	By Customer	Grade /Type/Class/Size/etc. :	32 mm		
Name of Work :	Special repair including Rehabilitation, Retrofitting and augmentation of ESIC Hospital cum Residential Complex at Sec-08, Faridabad.				
Sample Quantity Received :	3 Pcs of 1 Mtr.	Environmental Condition :	N/A		
Batch No./Lot No. :	N/A	Brand Name, if any (Make) :	Steel Kraft		
Mode of Packing :	N/A	Component Value :	N/A		
Reference No. :	23(ESIC)/A.E(E)-II/F.E.Sb D/2023-24/268				
Declared Value if any :	N/A				
Name of Agency :	M/s A.K. Constructions	Indian Standard Reference :	IS:9537(P-II)-1981		
Agreement No. :	Electrical 04/EE(E)/FED/2023-24 Civil 02/EE/FD/2023-24	Location of Sampling point :	N/A		
Any Other Information (if any) :	N/A				
Test Report Form No. :	ATHB/7.8/F01				
Test Report Form(s) Originator :	Alpha Test House, Bahadurgarh				
Issue No. & Issue Date :	02 & 31/12/2022				
Amendment No. & Date :	00_				

Test Results

Sr. No.	Test Parameters	Units of Measurements	Results	Requirement as per IS: 9537 (P-II)-1981, Reaf-2017	Method Reference
1.	Outside diameter, Clause 7.1	mm	31.92	32+0 -0.4	IS: 9537(P-II)-1981, Reaf-2017
2.	Thickness, Clause 7.1	mm	1.65	1.4 to 1.8	IS: 9537(P-II)-1981, Reaf-2017
3.	Compression test the difference between the initial diameter and the diameter of flattened sample, Clause, 9.3.2	%	1.2	10 Max	IS: 9537(P-I)-1980, Reaf-2020

Remarks:- The Sample Conforms to IS: 9537 (P-II)-1981 for M.S. Conduit Pipe w. r. t. the above tests only.

****End of Report****


 For Alpha Test House
 Verified By

