



सत्यमेव जयते

भारत सरकार Government of India

राष्ट्रीय परीक्षण शाला (पू.क्षे.)

National Test House (ER)

राष्ट्रीय परीक्षण शाला (पू.क्षे.), 11/1, जजसेस कोर्ट रोड, अलीपुर, कोलकाता, पश्चिम बंगाल - 700027
11/1, Judges' Court Road, Alipore, Kolkata, West Bengal - 700027



PART A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST REPORT

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: **NTH(ER)/CH(OD)/22/1470_1** SRF Number: **NTH(ER)/CH(OD)/22/1470** जारी होने की तिथि/Date of issue: **10 Jan, 2023** कोड सं/QR Code/Barcode: **NTH220010583**

a) जिसे जारी करना है/Issued To	:	Rawal Shri Mallinathji's And Rani Rupadeoji's Malajal Enterprises
b) पता/Address	:	Khasra No - 520/135, Tehsi-Pachpadra, Jasol-Tilwara Road, PO & Village - Mewanagar, Barmer, Rajasthan - 344022, Balotra, Barmer, Rajasthan, India - 344022
c) ग्राहक का संदर्भ सं एवं दिनांक/ Customer's Ref. No.	:	TR/ER/22/2706 - 11 Nov, 2022
d) नमूना मुहरबंद स्थिति/Sample Sealed Status	:	Not Applicable
e) परीक्षण सामग्री का विवरण/ Description of Test item	:	Plastic Emulsion Paint Exterior Paints A Paint made using Cow Dung. Batch No -4 (Mfd - 03/11/2022) Mfg -Rawal Shri Mallinathji's and Rani Rupadeoji's Malajal Enterprises
f) नमूना का विशिष्टता (यदि हो)/Product Specification(if any)	:	IS 15489 (2013) - Paint, plastic emulsion - Specification (First Revision)
g) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item	:	16 Nov, 2022
h) कार्य सम्पादन की तिथि/Date(s)of Performance of Tests	:	From: 28 Dec, 2022 To: 10 Jan, 2023
i) Quantity	:	2.0 Litres
j) Any other Information / Expiry Date, If any	:	IS 15489
k) Section Code	:	22CHP358CN
l) Section Report No.	:	22CHP358CN_1
m) Report Type	:	New
n) Reference Report No.	:	
o) Remarks	:	Report sent

Bipin Kumar
OIC SAMPLE CELL
(Authorized Signatory)
Authorized on: 10 Jan, 2023 15:38 PM

The certificate relates only to Test/Calibration item submitted to the laboratory for Testing/Calibration. This certificate cannot be reproduced except in full without written approval of the competent Authority of NTH.

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PART B. SUPPLEMENTARY INFORMATION

1.	नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो। Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ, यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	Not Applicable
3.	सम्बद्ध मानक / कार्य निर्देशों में निर्धारित परीक्षण पद्धति से विचलन, यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/ Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान/identification of Test item	Plastic Emulsion Paint Exterior Paints A Paint made using Cow Dung. Batch No -4 (Mfd - 03/11/2022) Mfg -Rawal Shri Mallinathji's and Rani Rupadeoji's Malajal Enterprises
5.	व्यावृत्त की प्राणाली की पहचान/Method(s) used for Test	As referred in IS 15489:2013 RA2018
6.	नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant	As per specification
7.	पर्यावरण की स्थिति/Environmental Conditions	As per specification
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	QUV Accelerated Weathering Apparatus Artificial weathering apparatus of UV condensation
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

AJAY APPARAO UKARANDE
OIC Testing/Calibration Chemical (Paint, High Polymer, Outdoor)
(Authorized Signatory)
Authorized on: 10 Jan, 2023 12:37 PM

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Section Report No. : 22CHP358CN_1

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PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	6.4	Application	The material after recommended thinning shall be suitable for application by brush, spray or roller. The resulting film shall not show pigment flocculation, coarseness or other undesirable characteristics.	-	-	-	After thinning , the paint is suitable for application by brush, spray or roller & the resulting film does not show pigment flocculation, coarseness or other undesirable characteristics.
2	6.3	Thinning	When suitably thinned with water, the material shall mix readily with minimum amount of foaming to a smooth and homogeneous state. The foaming, if any, shall dissipate rapidly.	-	-	-	When suitably thinned with water, the material mixes readily with minimum amount of foaming to a smooth and homogeneous state.
3	6.2	Conditions in the Container	The material shall be free from odour of putrefaction. It shall be free from lumps, skins and the conditions of the material shall be such that settling, if any, may be easily incorporated on stirring.	-	-	-	The Container was locked and sealed properly. The material is free from odour of putrefaction & free from lumps, skins and on stirring the material comes to a smooth and homogeneous state.
4	6.8	Durability Test for Exterior Use Only Accelerated weathering apparatus QUV (for 21 days)	To Pass the test	-	-	-	Passes the test (Vide Annexure-I)
5	6.9	Lead Restriction	ppm	-	300.0	ppm	4.0 (ppm)
6	6.11	Washability and cleanability	To pass the Test (4000 cycles)	-	-	-	Passes the test as the material doesn't show film defects like blistering, exposure of undercoat, color fading etc. after the test.

Milton Baidya
Lab Sc. Testing/Calibration Chemical (Paint, High Polymer, Outdoor)
(Authorized Signatory)

AJAY APPARAO UKARANDE
OIC Testing/Calibration Chemical (Paint, High Polymer, Outdoor)
(Authorized Signatory)
Authorized on: 10 Jan, 2023 12:37 PM

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Sample Code: 22CHP358CN

Sample Name: Plastic Emulsion Paint (Exterior) made using Cow Dung

Section Code : 22CHP358CN

Annexure-I

21 days Accelerated Weathering Test (QUV)

Method of Test: On the lines of Clause no C-3 of Annex C of IS 15489-2013

In assessing the original condition (under initial rating) and final condition (under assessment values) of the Film the optimum (basic) values assigned for the (1) Color, (2) Freedom from cracking, (3) Freedom from chalking and (4) Freedom from flaking were 25 each.

Observations:

Days	Colour	Freedom from Cracking	Freedom from Chalking	Freedom from Flaking
3days	White	No Cracking	No Chalking	No Flaking
6 days	No change	No Cracking	No Chalking	No Flaking
9days	No change	No Cracking	No Chalking	No Flaking
12days	No change	No Cracking	No Chalking	No Flaking
15 days	No change	No Cracking	No Chalking	No Flaking
18 days	slight change	No Cracking	No Chalking	No Flaking
21 days	slight change	No Cracking	No Chalking	No Flaking

Final rating based on above observation:

Sl No	Characteristic Value	Basic value	Performance value expressed as percentage of basic value	Assessment value computed from performance value (in round figure)
1	Possessing correct Colour	25	80	20
2	Freedom from Cracking	25	100	25
3	Freedom from Chalking	25	100	25
4	Freedom from flaking	25	100	25
Final Assessment Value				95

Remarks: Satisfactory (As overall assessment value is more than 50 percent (95) and the performance value of all characteristic are more than 25 percent of basic value)

Milton Baidya
Lab Sc. Testing/Calibration
Chemical (Paint, High Polymer, Outdoor)
(Authorized Signatory)

AJAY APPARAO UKARANDE
OIC Testing/Calibration
Chemical (Paint, High Polymer, Outdoor)
(Authorized Signatory)



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PART D. REMARKS

In respect of test carried out the sample meets the requirements for as per IS 15489:2013RA 2018 Specification for Paint, Plastic Emulsion for type-2(Exterior), Class-A.

PART D. Notes

Nil

AJAY APPARAO UKARANDE
OIC Testing/Calibration Chemical (Paint, High Polymer, Outdoor)
(Authorized Signatory)
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