



**ANNEXURE**

Customer:

**Raychem RPG Pvt. Limited**

Plot No: 9, S. No: 62, Hissa No: 2 & 3,  
Near Bharat Petroleum,  
Valiv Village, Post – Sativali,  
Vasai (E) – 401208,  
Maharashtra, India

**ELCA No.:** Y-2627

**Date:** 07.11.2017

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**Customer Challan no.:** RRPL/2017-18/JB001 dated 22.09.2017

**Sample Description:** - Aluminium Junction Box; **Size:** 122mm x 120mm x 81mm

**Corrosivity category given by customer as per ISO 12944-2 is C5-M(Marine)**

2 number of samples were provided by customer for the testing purpose

The above sample has been tested and the results are as below.

**1) NEUTRAL SALT SPRAY TEST**

**TEST METHOD:** ISO 7253:2001

**TEST CONDITIONS**

The samples were placed in the test chamber at room temperature. The test conditions are as follows:-

Temperature within exposure zone	<b>34.6 to 35.3°C</b>
Exposure Period	<b>720 hours</b>
Loading Date and Time	<b>07.10.2017</b>
End Date and Time	<b>06.11.2017</b>
Type of Salt	<b>NaCl (AR grade)</b>
Method of cleaning	<b>Running water</b>
Method of supporting	<b>Nylon Thread</b>
Equipment used / ID:	<b>Salt Spray Chamber</b>
Salt Solution %	<b>5.00 TO 5.04</b>
Type of Water	<b>Distilled water</b>

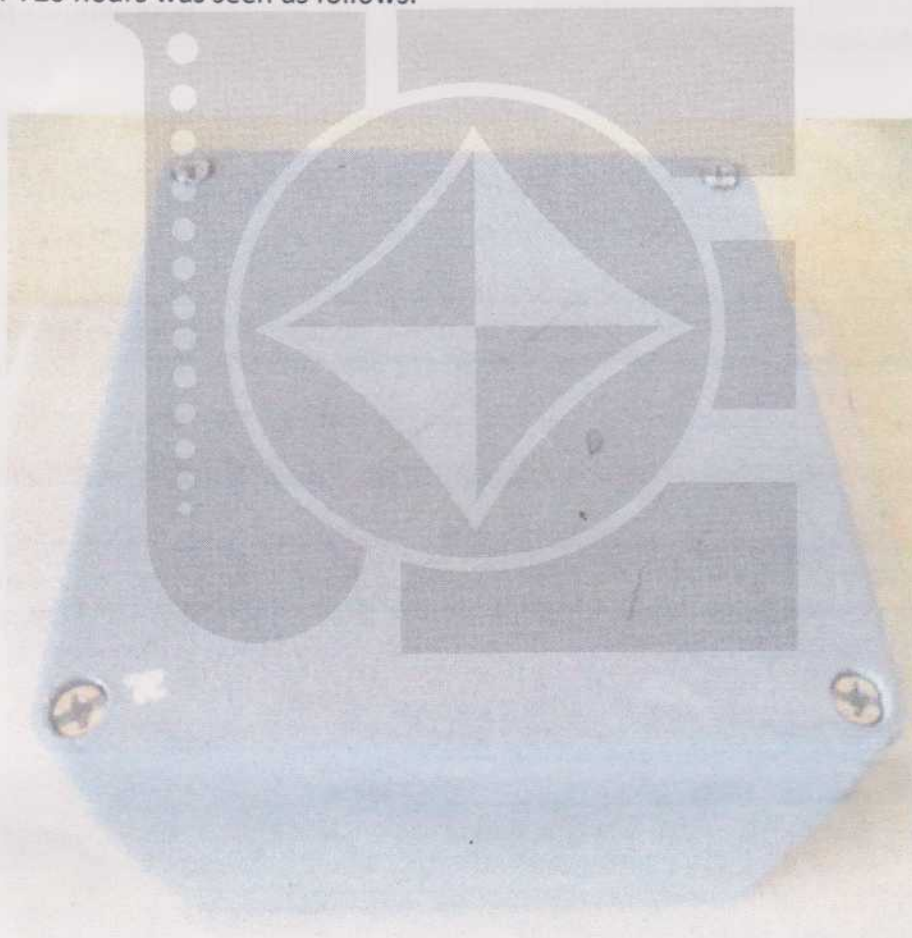


Continuation Sheet of Test Report No: Y-2627

Fog Collection device details:-

Collected volume in ml/hr/80cm <sup>2</sup>	<b>1.4 to 1.9</b>
Sp. gravity	<b>1.027 to 1.033</b>
pH Level	<b>6.95 to 7.04</b>

Sample after 720 hours was seen as follows:



The salt spray test procedure is based on **ISO 7253** (Paints and varnishes - Determination of resistance to neutral salt Spray (fog) and evaluation based on **as per clause no. 6.4 of ISO 12944-6:1998**. After the completion of every 24 hours the samples were visually inspected.





**EVALUATION OF TEST**

Standard followed	Evaluation Criteria	Evaluation Specification	Observation during testing	Remarks
DIN EN ISO 4628-2	Blistering may not exceed	2(s4)	2(s2)	Acceptable
DIN EN ISO 4628-3	Rusting may not exceed	Ri3	Ri0	Acceptable
DIN EN ISO 4628-4	Cracks may not exceed	Rating 1	Rating 0	Acceptable
DIN EN ISO 4628-5	Flaking may not exceed	Rating 3	Rating 0	Acceptable
The surface of the sample besides an area of 10 mm away from the scribe and the edges not shown any deterioration as blistering, rusting, cracking or flaking				

2) **WATER CONDENSATION TEST**

**TEST METHOD:** EN ISO 6270-2:2005 clause no. 6.4.2

**TEST CONDITIONS**

Junction Box were conditioned in the chamber as below:

Air Temperature	<b>(40 ± 3)°C</b>
Relative Humidity	<b>100% with condensation on the test specimens</b>
Exposure Period	<b>480 hours</b>
Start date	<b>14.10.2017</b>
End date	<b>03.11.2017</b>
Equipment used	<b>ENV-023</b>



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**EVALUATION OF TEST**

Standard followed	Evaluation Criteria	Evaluation Specification	Observation during testing	Remarks
DIN EN ISO 4628-2	Blistering may not exceed	2(s4)	2(s2)	Acceptable
DIN EN ISO 4628-3	Rusting may not exceed	Ri3	Ri0	Acceptable
DIN EN ISO 4628-4	Cracks may not exceed	Rating 1	Rating 0	Acceptable
DIN EN ISO 4628-5	Flaking may not exceed	Rating 3	Rating 0	Acceptable
The surface of the sample besides an area of 10 mm away from the scribe and the edges not shown any deterioration as blistering, rusting, cracking or flaking				

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Checked by:

*Harshala*

for ELCA LABORATORIES

*Shriram Raichur*

Authorised Signatory  
Shriram Raichur/Harshala Mawale  
Dy. Technical Manager/Senior engineer