



**BUREAU
VERITAS**

TEST REPORT

ITS TM 1302
concrete



NABL Accredited Lab
MECHANICAL TESTING
Buildings Materials

Test Order/Report No.: BVIPL/SP.TEST:25941C/1661/2/2020
Date of Receipt : 19.02.2020

Date :05.03.2020
Page 1 of 1
ULR-TC549120000001611F

L & T -STEC JV-MUMBAI
L and T STEC Metro 3, Package 7 Project Office,
1st Floor, Wyce Administrative Building,
Opp. Seepz Gate No.1, MIDC, Andheri-East,
Mumbai-400093

TEST REPORT ON CONCRETE DURABILITY

Source of Sample	:	Sample supplied by the customer.
Number of Sample Tested	:	03 (Three only)
Condition of Sample	:	Satisfactory
Customer's Reference	:	LT-STEC-AAO-QAS-P07-QC-183, Letter dt.18.02.2020
Description/Size of sample#	:	Concrete Prism /75 x 75 x 300 mm
Sample ID#	:	M 40 LINING/TM-1222/DOC 22.01.2020
Lab Reference Number	:	2020/FEB/325932
Date of testing	:	20.02.2020 TO 03.03.2020

Test Results:

Sl. No.	Test Performed	Results	Technical Reference
1	Avg. Drying Shrinkage (%)	0.026	IS-1199-1959 RA 2018
2	Avg. Moisture Movement (%)	0.018	

As furnished by the customer.

- Note:
1. The results relate only to the items tested.
 2. Report shall not be reproduced except in full, without the written approval of the lab.
 3. Any correction invalidates this report.

For **Bureau Veritas (India) Pvt Ltd**
Construction Services Laboratory



Sandip Patil
[Signature]

Lab Incharge - Concrete
Authorised Signatory



Reviewed by
[Signature]



NABL Accredited Lab

TEST REPORT

Test Order/Report No.: BVIPL SP.TEST:25941C/1661/2/2020
Date of Receipt : 19.02.2020

Date :26.02.2020
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MECHANICAL TESTING
Buildings Materials

L & T -STEC JV-MUMBAI

Land T STEC Metro 3, Package 7 Project Office,
1st Floor, Wycel Administrative Building,
Opp. Seepz Gate No.1, MIDC, Andheri-East, Mumbai-400093

TEST REPORT ON CONCRETE DURABILITY

Source of Sample	:	Sample supplied by the customer.
Number of Sample Tested	:	03 (Three only)
Condition of Sample	:	Satisfactory
Customer's Reference	:	LT-STEC-AA0-QAS-P01-QC-183, Letter dt.18.02.2020
Description/Size of sample#	:	Concrete Cube /150 x 150 x 150 mm
Sample ID#	:	M 40 LINING/TM-1222/DOC 22.01.2020
Lab Reference Number	:	2020/FEB/325932
Date of testing	:	20.02.2020 TO 24.02.2020

Water absorption:

Sl. No.	Test Performed	Results	Technical Reference
1	Avg. Corrected Water absorption % (10 Min.)	1.45	BS:1881-(Part-122) 2011
2	Avg. Corrected Water absorption % (24 Hrs.)	3.51	

As furnished by the customer.

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For **Bureau Veritas (India) Pvt Ltd**
Construction Services Laboratory



Sandip Patil
Sandip Patil
Lab Incharge - Concrete
Authorised Signatory



Reviewed by
Sgn



NABL Accredited Lab

Test Order/Report No. BVIPL: CONCRETE: 25941C/1661/2/2020
Date of Receipt: 19.02.2020

TEST REPORT

Date: 22.02.2020

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L&T - STEC JV-MUMBAI

L and T STEC Metro 3, Package 7 Project Office,
1st Floor, Wycel Administrative Building,
Opp. Seepz Gate No.1, MIDC, Andheri-East, Mumbai-400093

CHEMICAL TESTING
Building Material

TEST REPORT ON CHEMICAL PROPERTIES OF CONCRETE

Source of sample	:	Sample supplied by the customer.
Number of samples Tested	:	01 (One Only)
Customer's Reference	:	LT-STEC-AAO-QAS-P07-QC-183, Letter dt. 18.02.2020
Lab reference Number	:	2020/FEB/325932
Condition of Sample	:	Satisfactory
Sample Details#	:	TM 1222 (Grade- M40 Tunnel Lining)
Sample From #	:	M40 LINING
Project #	:	Mumbai Metro Line III, Package - UGC 07
Period of Test	:	19.02.2020 to 20.02.2020
Technical Reference	:	BS: 1881 (P 124)-2015

Test Result

Sl. No.	Sample Identification # ↓	Results	
	Test Conducted →	Chloride (kg/m ³)	Sulphate Content % by mass of Sample
1	TM -1222 Date of Casting -22.01.2020	0.34	0.35

Requirements as per IS: 456-2000 Table 7 and clause 8.2.5.3

Sl No.	Type of structure	Maximum Total Chloride Content expressed as Kg/m ³ of Concrete	Total soluble sulphate content of the concrete mix expressed as SO ₃
1	Concrete containing metal and steam cured at elevated temperature and prestressed concrete	0.4	Shall not exceed 4% by mass of cement in the mix
2	Reinforced concrete or plain concrete containing embedded metal	0.6	
3	Concrete not containing Embedded metal or any material requiring protection from chloride	3.0	

As furnished by the customer.

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For BUREAU VERITAS (INDIA) PVT LTD.
Construction Services Laboratory

Dinesh Gaikwad



Lab In-charge-Chemical
Authorised Signatory



Reviewed by
S. J. S.

Bureau Veritas (India) Pvt. Ltd. - Construction Services Laboratory

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