

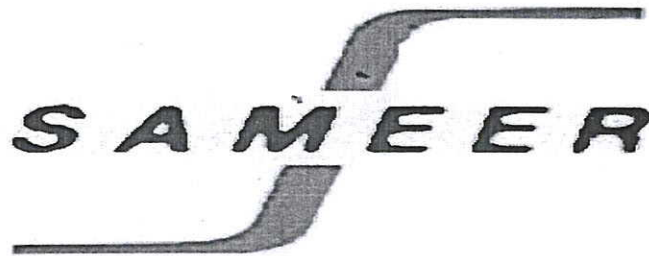
Test Report No: SMR(K)/EMCD-TR/22-23/001/005

DAMPED OSCILLATORY WAVE IMMUNITY TEST REPORT FOR WMS DATALOGGER

Customer:

**M/s. M. B. CONTROL & SYSTEMS PVT. LTD.
31/1, AHIRIPUKUR ROAD, KOLKATA – 700019, WB,
INDIA**

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SAMEER Kolkata Centre



SAMEER KOLKATA CENTRE

[SOCIETY FOR APPLIED MICROWAVE ELECTRONICS ENGINEERING AND RESEARCH]

**R & D LABORATORY OF
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY [MeitY]
GOVT. OF INDIA
PLOT – L2, BLOCK – GP, SECTOR – V, SALT LAKE ELECTRONICS COMPLEX,
KOLKATA-700 091, INDIA**

JUNE, 2022

ULR-TC404522000000005F

SAMEER KOLKATA CENTRE, KOLKATA – 700 091

DAMPED OSCILLATORY WAVE IMMUNITY TESTREPORT FOR WMS DATALOGGER



Test Report Particulars



Certificate No. TC-4045

- 01 Equipment under Test : WMS DATALOGGER
02 Number of test sample : One
03 Model Number of EUT : MBLOGGER 1000 PRO
04 Serial number of EUT : 2205XP01012
05 Brand : Nil
06 Manufacturer : M/s. M. B. CONTROL & SYSTEMS PVT. LTD
07 Customer : M/s. M. B. CONTROL & SYSTEMS PVT. LTD.
31/1, AHIRIPUKUR ROAD, KOLKATA – 700019, WB, INDIA
08 Type of test requested : Damped Oscillatory Wave immunity test
09 Test Specifications : IEC 61000-4-18, Edition 2.0 2019-05
10 Sample Received on : 13th May, 2022
11 EUT condition : Functional
12 Tested on : 13th May, 2022
13 Test Venue : SAMEER KOLKATA CENTRE
14 Test Witnessed by : Mr. SHAMIBRATA BHOWAL(QUALITY CONTROL ENGINEER)
15 Test Request Number : SMR(K)/EMCD-TRQ /22-23/001

The **WMS DATALOGGER** has been tested for the parameters reflected in the subsequent pages and the data reported in this report is valid only for the test sample mentioned above and under the stated condition of measurement. Particulars of manufacturer/supplier, given in this report, are based on the information given by the customer, along with the test request. **SAMEER KOLKATA CENTRE** does not bear any responsibility for the correctness of that information for the above mentioned equipment under test.

Test Report Prepared by

K. Joshi
KUNTAL JOSHI

Reviewed by

J. PRAKASH
J.PRAKASH

Reviewed & Approved By

Satyajit Chakrabarti
SATYAJIT CHAKRABARTI

Office seal &
Issued date

PROJ. ASSISTANT-C IN-CHARGE TECH. SUPPORT

QM / TM



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Equipment under test : WMS DATALOGGER
Model No. : MBLOGGER 1000 PRO
Sl. No. : 2205XP01012
Customer : M/s. M. B. CONTROL & SYSTEMS PVT. LTD

DAMPED OSCILLATORY WAVE IMMUNITY TESTREPORT FOR WMS DATALOGGER

1.0 DAMPED OSCILLATORY WAVE IMMUNITY TEST

1.1 APPLICABLE STANDARD: IEC 61000-4-18 Edition 2.0 2019-05

1.2 TEST SPECIFICATIONS:

Test levels : Up to 3
Test Voltage : Up to ± 1 KV (L – L)
Wave-form rise time : 75 ns
Voltage oscillation frequency : 100 kHz.
Coupling : L – L

1.3 TEST INSTRUMENT USED:

EQUIPMENT	MAKE	MODEL NO.	SERIAL NO.	LAST CAL DATE
DAMPED OSCILLATORY WAVE GENERATOR	EMC PARTNER AG	DOW-CG1-S	109929-1509	09/05/2022
COUPLING DECOUPLING NETWORK		CDN-DOW-DATA-LF	1514	
MIXED SIGNAL OSCILLOSCOPE	TEKTRONIX	MSO4104B	C010745	03/09/2021

* Internal Performance Verification

1.4 ENVIRONMENTAL CONDITION:

Temperature : 27.8 °C
Humidity : 58.5 %

1.5 LOAD USED : A Laptop was used as the load.

1.6 TEST PROCEDURE :

As per SMR(K) / OP / 010; Issue 01, dated 2nd Sept, 2021; Revision 00, dated --.

EUT was configured for supply connection to 12V_{DC}. After the Damped oscillatory wave generator and EUT were switched ON, 10 minutes were allowed for stabilization. Damped oscillatory wave disturbances were coupled between the 12V_{DC} supply line of the EUT. Coupling of the disturbances were between L – L.

1.7 EVALUATION OF TEST RESULTS:

During and after test run, no impact on the normal functioning of the EUT was noticed. Normal performance within the limits specified by the manufacturer, requestor or purchaser.

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EMC TEST REPORT FOR WMS DATALOGGER

1.8 PHOTOGRAPH OF THE TEST SET- UP AS PER IEC 61000-4-18:

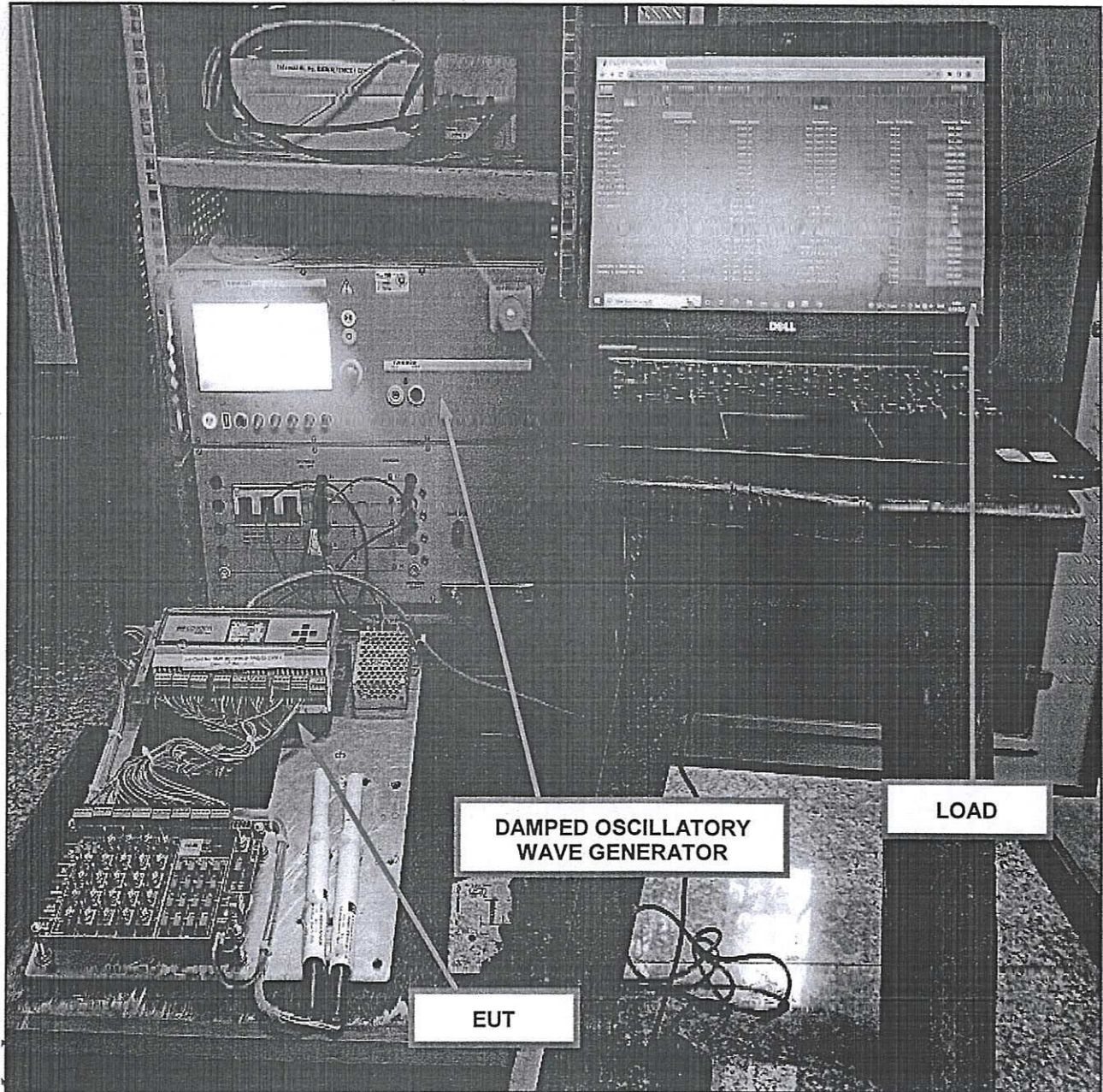


Fig 1: Photograph of the Damped oscillatory wave immunity test set-up for WMS DATALOGGER

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Equipment under test : WMS DATALOGGER
Model No. : MBLOGGER 1000 PRO
Sl. No. : 2205XP01012
Customer : M/s. M. B. CONTROL & SYSTEMS PVT. LTD

EMC TEST REPORT FOR WMS DATALOGGER

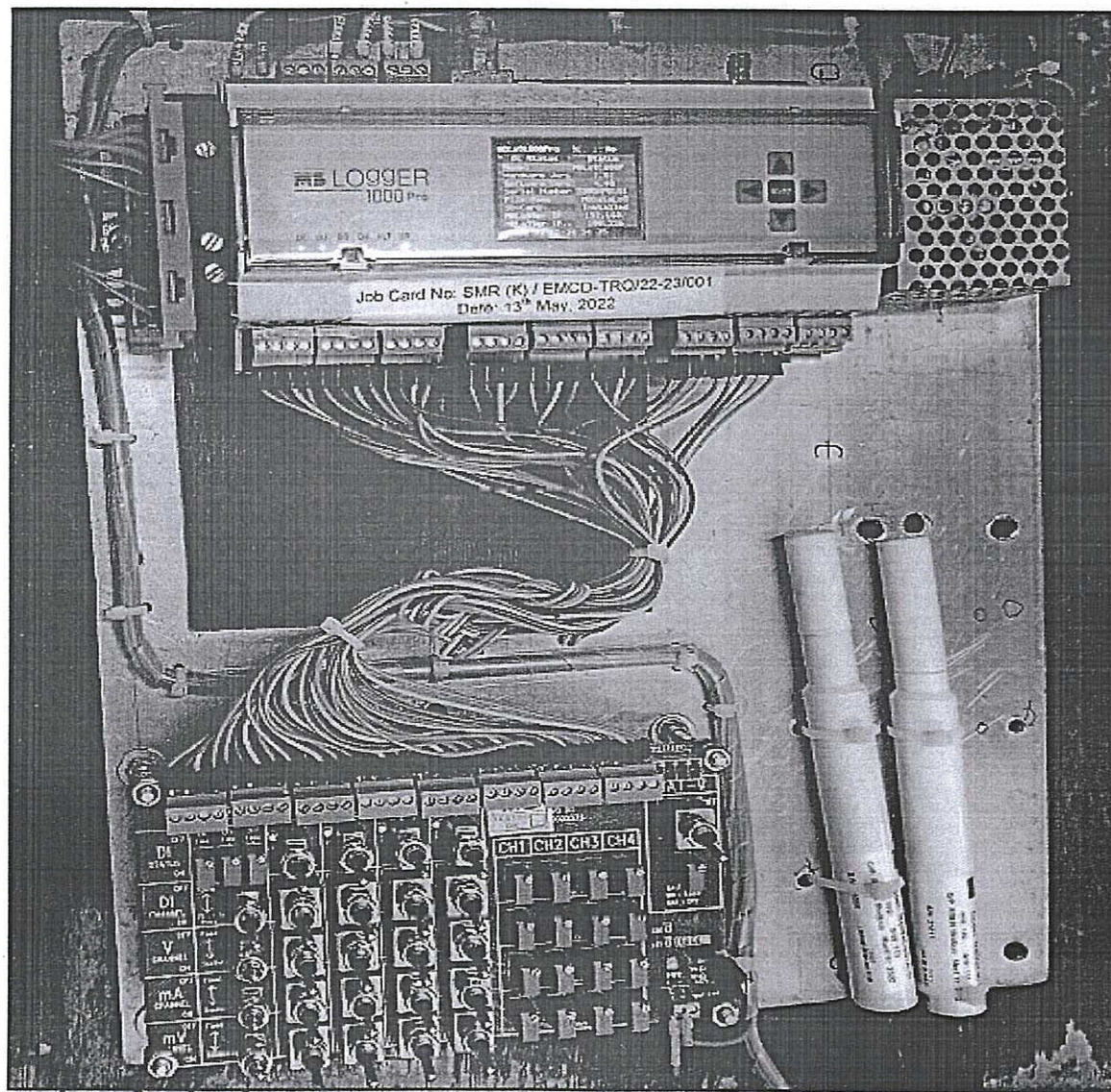
1.9 PHOTOGRAPH OF THE EUT(EQUIPMENT UNDER TEST)

Fig. 2: Photograph of the WMS DATALOGGER

TEST CONDUCTED BY:

J. Prakash
J. PRAKASH

IN-CHARGE TECH. SUPPORT

K. Joshi

KUNTAL JOSHI

PROJECT ASSISTANT-C



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