

TO WHOM SO EVER IT MAY CONCERN

This is to certify that our product NANO PBX, Model: CPX-002 is designed, developed and tested according to European telecommunication standard published by ETSI ES 203 021 (Old standard TBR21).

Rayneesh Verno

Mr. Rajneesh Verma, Director Authorized Signatory





(STQC Directorate, Ministry of Communications & Information Technology) 100 ft Road, Peenya Industrial Estate, Bangalore-560 058 (Tel: 2839 5992, 2839 4647. Fax: 080 - 2839 1804) E-mail: centre@etdcbg.org



T-0044

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Report No.: ETDC (Bg)/T-60331-1

TEST REPORT

1. Sc	cope		
1.	Service request number	60331	
2.	Requested by (Name & Address of the Organization)	M/s. CEM Solutions Pvt Ltd, Akarsh Eco Place ,Ground Floor, 176 EPIP, Industrial Area, Kundalahalli, Whitefield, Bangalore-560066.	
3.	Description of the equipment:		
	a) Nomenclature	Nano PBX	
	b) Manufactured by	CEM Solutions Pvt Ltd	
	c) Model / type no.	CPX-002	
	d) Serial no.	001 (Prototype)	
4.	Date of submission of samples	30-09-2009	
5.	Condition of item on receipt	Good	
6.	Date of completion of tests	01-10-2009	
7.	Applicable test specification	CISPR22:2006 & IEC61000 series	
8.	Test category	Performance Test	
9.	Environment condition	Temp: 26 °C, RH: 65%	

2 Major equipments used

2. IVI	2. Major equipments used				
Sl No	Nomenclature	Make	Model	Cal. Due	
1	EMI Receiver	R&S	ESI26	FEB 2010	
2	LISN	R&S	ESH3Z5	FEB 2010	
3	ESD Gun & Simulator	EM Test	30C/P30C	JUNE 2010	
4	Signal Generator	Marconi	2030	MAY 2010	
5	Biconicalog Antenna	Electro-metrics	EM-6917B-1	AUG 2010	
6	E-field Sensor	DARE	RADISENSE	JAN 2010	
7	Continuous Wave Simulator	EM Test	CWS500C	NOV 2009	
8	Surge Generator	Keytek	801-Plus	JUNE 2010	
9	Electric Field Strength Meter	Holaday	HI3604	JUNE 2010	

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BANGALORE - 560 058

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Information contained on the cover.

EMC/FM-081-07



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Test Performed

: 1) Mains terminal disturbance voltage measurement

2) Electromagnetic radiation disturbance measurement @ 3mts. distance

Specification

: CISPR22:2006, class B

Detector

: Quasi Peak (Qp) / Average (Avg)

Detector B/W:

Frequency (MHz)	Detector B/W (kHz)
0.15 - 30	9
30 - 1000	120

Limits:

Mains terminal disturbance voltage measurement for class B equipment				
Frequency (MHz)	Qp Limit (dBμV)	Avg Limit (dBµV)		
0.15 - 0.5	66 - 56	56 - 46		
0.5 - 5.0	56	46		
5.0 - 30	60	50		
Electromagnetic radiati	Electromagnetic radiation disturbance measurement for class B equipment			
Frequency		Qp Limit		
(MHz)		$(dB\mu V/m)$		
30 - 230		40		
230 - 1000		47		

EUT Configuration: Nano PBX (Internet Private Branch Exchange) was powered by 220V AC/12V DC power adaptor. It is used to make internal calls, outgoing calls, as well as IP calls. It has 6 FXS and 2 FXO ports. During the test, only one FXS and one FXO port was used for communication.

Summary of Test Results:

Mains terminal disturbance voltage measurement:

Meets the Class B Limits of CISPR 22.

Few significant emissions are reported in page no 03.

Refer annexure "A&B" for mains disturbance voltage graph (Peak measurement).

Electromagnetic radiation disturbance measurement:

Meets the Class B Limits of CISPR 22.

Few significant Emissions are reported in page no. 04

Refer annexure "C" to annexure "J" for radiated disturbance graphs (Peak measurement).

REMARK: - Equipment under test shown in annexure "K".

EMC/FM-082-07







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Results: (1) Mains terminal disturbance voltage measurement.

Frequency	Qp Reading	Qp Limit	Avg Reading	Avg Limit
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)
Phase - Ground				
0.342	34.32	61	27.21	51
0.438	34.06	58	25.61	48
0.478	38.50	57	27.77	47
0.498	36.38	56	23.59	46
1.134	31.74	56	14.29	46
29.818	22.35	60	16.09	50
Neutral - Groun	d			IN I ENVIOLEN
0.434	35.12	58	27.44	48
0.458	37.32	58	21.42	48
0.490	36.96	57	27.41	47
0.506	36.08	56	22.07	46
0.722	31.32	56	23.14	46
29.978	23.66	60	17.73	50





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2) Electromagnetic radiation disturbance measurement @ 3 mts.

Frequency (MHz)	Emission level measured (dBµV/m)	Angle (deg)	Polarisation (H/V)	Limit (dBµV/m)
79.12	33.45	0	V	40
80.24	33.39	90	V	40
85.16	37.62	270	Н	40
89.48	33.75	0	Н	40
124.8	36.61	270	Н	40
136.04	34.25	270	V	40
162.48	33.96	270	V	40
258.36	38.21	0	V	47
283.48	36.52	180	Н	47
290.68	35.66	90	Н	47
335.84	38.11	0	Н	47
340.92	37.68	270	Н	47
622.04	36.20	90	V	47
781.4	36.85	180	Н	47
848.64	38.26	270	V	47
874.08	38.71	0	Н	47





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Results:

Test : Electrostatic Discharge
Specification : IEC 61000-4-2:2001
EUT Configuration : Refer Page No.02

Wave shape / severity	Requirements	Test results
Energy storage Capacitance: 150pf Discharge Resistance: 330Ω Discharge type: a. Contact: Direct	 Performance Criteria during the test: a. Normal performance within the specification limits. b. Temporary degradation or loss of function or performance which is self-recoverable. c. Temporary degradation or loss of function or performance which requires operator intervention or system reset. d. Degradation or loss of function which is not recoverable due to damage of equipment (Components) or software, or loss of data. - During & after the test equipment should work satisfactorily and communication should not disturb. 	Meets the performance criteria (a). - During & after the test equipment was working satisfactorily without disturbing the communication.





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Results:

Test : Electrical Fast Transient / Burst

Specification : IEC 61000-4-4: 2004

EUT Configuration : Refer page 02.

Wave shape / severity	Requirements	Test Results
Pulse Rise time: 5nS Pulse Duration: 50nS Burst Duration: 15mS Burst period: 300mS Repetition rate of impulse: 5kHz Coupling on AC Power supply port Coupling type: Asymmetrical Level: 4 Voltage: 4 kV Peak Polarity: +ve & -ve Test duration: 1 minute in each polarity.	Performance criteria during the test: a. Normal performance within the specification limits. b. Temporary degradation or loss of function or performance which is self-recoverable. c. Temporary degradation or loss of function or performance which requires operator intervention or system reset. d. Degradation or loss of function which is not recoverable due to damage of equipment (Components) or software, or loss of data.	Meets the performance Criteria (a).
COLUMN TO THE REAL PROPERTY OF THE PERSON OF	- During & after the test equipment should work satisfactorily and communication should not disturb.	- During & after the test equipment was working satisfactorily without disturbing the communication.







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lesults:

est : Surge Immunity
pecification : IEC 61000-4-5: 2005
UT Configuration : Refer page 02

Wave shape / severity Requirements Test results Combination wave: Performance criteria during the test: Surge Voltage Meets the performance Front time: 1.2µS a. Normal performance within the specification limits. criteria (a). Duration: 50µS Surge current b. Temporary degradation or loss Front time: 8µS of function or performance Duration: 20µS which is self-recoverable. Coupling on Power supply c. Temporary degradation or loss of function or performance Coupling type: Symmetrical which requires operator intervention or system reset. Level: 3 Woltage: 1 kV Peak d. Degradation or loss of function Polarity: Positive & Negative which is not recoverable due to No. of surges: 5 in each damage of equipment polarity (Components) or software, or loss of data. Coupling type: Asymmetrical During & after the test - During & after the Level: 3 test equipment was equipment should work Woltage: 2 kV Peak satisfactorily and communication working satisfactorily Polarity: Positive & Negative should not disturb. without disturbing the No. of surges: 5 in each communication. polarity







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Results:

Test : RF Conducted Immunity
Specification : IEC 61000 - 4 - 6:2006
EUT Configuration : Refer Page No.02

Wave shape / severity	Requirements	Test results
R.F Freq: 150kHz-80MHz Sweep rate: 1% Dwell time: 3Sec Mod Freq: 1kHz Mod depth: 80% AM Coupling on: Power Supply Coupling type: CDN Level: 3 Voltage: 10 Vrms Coupling on Signal and Control lines (Transmit & Receive) Coupling type: BCI Level: 3 Voltage: 10 Vrms	Performance Criteria during the test: a. Normal performance within the specification limits. b. Temporary degradation or loss of function or performance which is self-recoverable. c. Temporary degradation or loss of function or performance which requires operator intervention or system reset. d. Degradation or loss of function which is not recoverable due to damage of equipment (Components) or software, or loss of data. - During & after the test equipment should work satisfactorily and communication should not disturb.	Meets the performance criteria (a). - During & after the test equipment was working satisfactorily without disturbing the communication.







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Results:

Test conducted

: Power Frequency Magnetic field.

Specification

: IEC 61000-4-8:2001

EUT Configuration : Refer Page No.02

Wave shape / severity	Requirements	Test Results	
Coupling on Enclosure port	Performance Criteria during the test:	urce operator	
Continuous field: Level: 3 Field Strength: 10 A/m	a. Normal performance within the specification limits.b. Temporary degradation or loss of function or performance	Meets the performance criteria (a).	
Axis: X, Y & Z	which is self-recoverable.		
Duration: 1 min each axis	c. Temporary degradation or loss of function or performance which requires operator intervention or system reset.	financis 180 deg	
	d. Degradation or loss of function which is not recoverable due to damage of equipment (Components) or software, or loss of data.		
n oter antiquated level (%)	- During & after the test equipment should work satisfactorily and communication should not disturb.	- During & after the test equipment was working satisfactorily without disturbing the communication.	







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Results:

Test Performed : Voltage Dips and Short Interruptions

Specification : IEC 61000-4-11:2004 EUT Configuration : Refer Page No.02

Performance criteria during the test:

a. Normal performance within the specification limits.

b. Temporary degradation or loss of function or performance which is self-recoverable.

 Temporary degradation or loss of function or performance which requires operator intervention or system reset.

d. Degradation or loss of function which is not recoverable due to damage of equipment (Components) or software, or loss of data.

Test Conditions	: Standard	No. of Dips	: 3	
Condition		Interval between Dips: 10 sec		
Test Frequency	: 50.00 Hz	Mode	: Synchronous	
Test Volts (U _T)	: 230.00 V	Angle	: 0 or 180 deg	
Waveform	: Sine			
Voltage Dip (% U _T)	Test Level (% U _T)	Duration (Cycles) 50Hz	Test Result	
100	0	1	Meets the performance	
80	20	10	criteria (a)	
70	30	25	no sali orisina di Salamania	
40	60	250	III. A HE (I'alba)	

Short interruption Test level (%UT)	Duration	Test Result
	(Cycles)	
0	250	Meets the performance
		criteria (a)

ELECTRONICS TEST &
DEVELOPMENT CENTRE
BANGALORE - 560 058

EMC/FM-099-07



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Results:

Test Performed : Harmonic Current Emission

Specification : IEC 61000-3-2:2005 EUT Configuration : Refer Page No.02

Classification : CLASS - A
Test type : Steady State
Test time : 2.5 min

Test Volts : 230.00 V Test Frequency: 50Hz Waveform : Sine

Limit Results Harmonic Amps Limit Results Harmonic Amps No. No. 0.057 Pass 21 0.026 0.107 Pass 0.084 2 0.001 1.080 Pass 22 0.001 Pass 0.098 3 0.050 2.300 Pass 23 0.022 Pass 4 0.430 24 0.077 0.001 Pass 0.001 Pass 1.140 25 0.090 5 0.049 Pass 0.019 Pass 0.300 6 0.001 Pass 26 0.001 0.071 Pass Pass 7 0.770 27 0.083 0.047 Pass 0.015 8 0.001 0.230 28 0.000 0.066 Pass Pass 0.400 29 0.078 9 0.045 Pass 0.012 Pass 0.184 Pass 30 0.000 0.061 Pass 10 0.001 11 0.043 0.330 Pass 31 0.009 0.073 Pass 0.058 12 0.001 0.153 Pass 32 0.000 Pass 13 0.040 0.210 33 0.007 0.068 Pass Pass 0.131 34 0.054 14 0.001 Pass 0.000 Pass 0.150 35 0.064 15 0.037 0.005 Pass Pass 16 0.001 0.115 Pass 36 0.000 0.051 Pass 0.132 37 0.061 17 0.033 Pass 0.003 Pass 0.102 38 0.048 Pass 18 0.001 Pass 0.000 19 0.030 0.118 39 0.002 0.058 Pass Pass 0.092 40 0.046 20 0.001 Pass 0.000 Pass





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Results:

Test Performed : Voltage Fluctuation and Flicker

Specification : IEC 61000-3-3:2005

1) Test Volts : 230.00 V
Test Frequency : 50.00 Hz
Waveform : Sine
Test time : 120 min
T-shirt : 10 min

EUT Configuration : Refer page 02

	EUT DATA	LIMIT	RESULT
Pst max	0.008	1.00	Pass
Plt max	0.008	0.65	Pass
dc%	0.00	3.30	Pass
d max%	0.00	4.00	Pass
d(t) sec	0.00	0.50	Pass

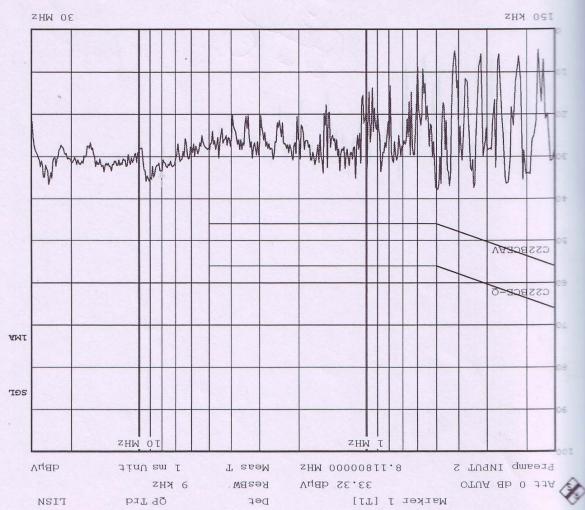
Tested By
Hemant Sahu)
Scientist 'B')
Date:

EMC/FM-101-07

DE VELOPMENT CENTRE BANGALORE - 560 058 FINFORMATION TECH. S.T.O.C. ORD Approved By Dr. N.C. JOSHI

Scientist 'E'
Electronics Test & Development Centre
Ministry of Comm. & IT., STQC Directorate,
Gevt. of India, Bangalore - 560 058.

CO-ORDINATOR
TESTING SERVICES,
E.T.D.C., BANGALORE



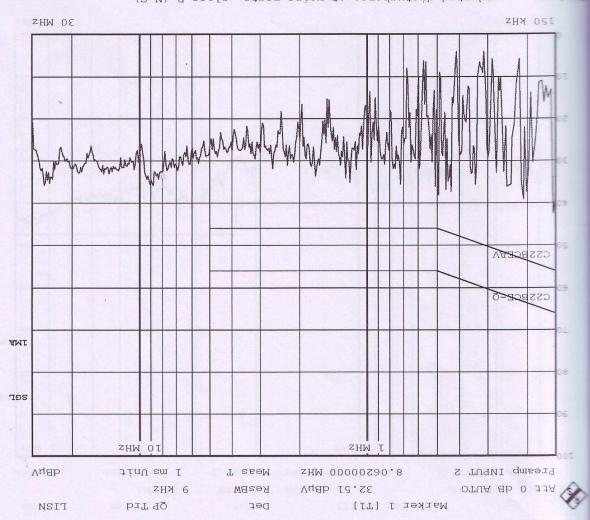
30.SEP.2009 15:14:26 conducted disturbance at mains ports, class B (L-G)









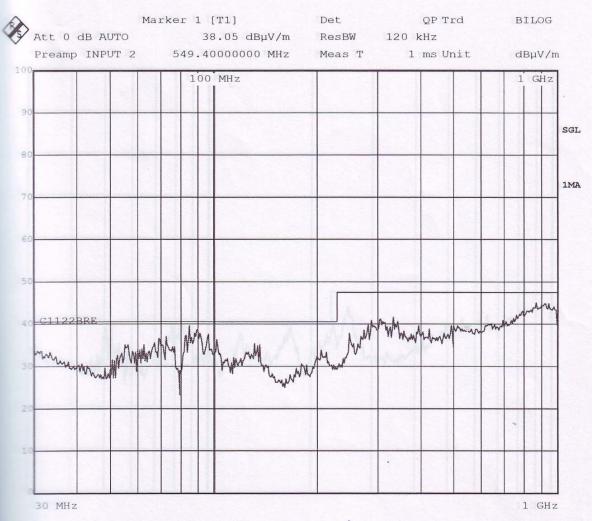


conducted disturbance at mains ports, class B (N-G)



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Radiated disturbance, class B (H,0)
30.SEP.2009 11:42:55





Marker 1 [T1] QP Trd Det BILOG Att 0 dB AUTO 31.26 dBμV/m ResBW 120 kHz
Preamp INPUT 2 344.36000000 MHz Meas T 1 ms U 1 ms Unit dBµV/m 100 MHz 1 GHz SGL 1MA

Radiated disturbance, class B(V,0)
30.SEP.2009 12:06:54

1 GHz





30 MHz

Marker 1 [T1]

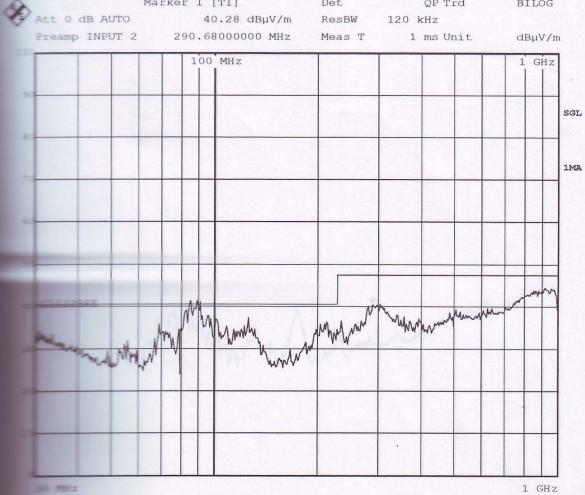
Det

QP Trd

BILOG

1 ms Unit

dBµV/m



Padiated disturbance, class B(H,90) 30.SEP.2009 12:28:47





Marker 1 [T1] Det QP Trd BILOG
Att 0 dB AUTO 41.30 dBμV/m ResBW 120 kHz
Preamp INPUT 2 622.04000000 MHz Meas T 1 ms Unit dBμV/m

100 MHz 1 GHz

sgl.

0.

30 MHz

Radiated disturbance, class B(V,90)

30.SEP.2009 12:19:29

Br

1 GHz





BILOG

Аtt 0 dB AUTO 38.50 dBµV/m ResBW 120 kHz
Preamp INPUT 2 291.72000000 MHz Meas T 1 ms Unit dBµV/m

100 MHz 1 GHz

1 GHz

1 MA

Det

QP Trd

Radiated disturbance, class B(H,180) 30.SEP.2009 12:36:57

30 MHz

Marker 1 [T1]



1 GHz



Marker 1 [T1] Det QP Trd BILOG
Att 0 dB AUTO 31.30 dBμV/m ResBW 120 kHz
Preamp INPUT 2 300.32000000 MHz Meas T 1 ms Unit dBμV/m

100 MHz 1 GHz

set

Fadiated disturbance, class B(V,180) 30.SEP.2009 12:49:03



Marker 1 [T1] Det QP Trd BILOG
Att 0 dB AUTO 40.67 dBμV/m ResBW 120 kHz
Preamp INPUT 2 340.92000000 MHz Meas T 1 ms Unit dBμV/m

100 MHz 1 GHz

SGL

11322BRE 1 GHz

Radiated disturbance, class B(H,270) 30.SEP.2009 13:09:54







Marker 1 [T1] QP Trd Det BILOG Att 0 dB AUTO 30.24 dBµV/m ResBW 120 kHz Freamp INPUT 2 298.80000000 MHz Meas T 1 ms Unit dBµV/m 100 MHz 1 GHz SGL 1MA 1 GHz 30 MHz

> Padiated disturbance, class B(V,270) 30.SEP.2009 12:55:32







DECLARATION OF CONFORMITY

Application of Council Directives: Radio Equipment and telecommunication Terminal Equipment Directive(R&TTE) 1999/5/EC.

Name of Equipment: Nano PBX.

Model Number: CPX-002

Description: Nano PBX is 8 port PBX equipment used for Voice and data Call.

Manufacturer's Name: CEM Solutions Pvt. Ltd.

Manufacturer' Address: 143-A1, Bommasandra Industrial Area, Hebbagodi

Village, Anekal

Taluk, Bangalore 560099.

Test Lab Name and Address: Electronics Test and Development centre, 100ft Road

Peenya Industrial Estate, Bangalore-560058

Test Lab report No.: ETDC(Bg)/T-60331-1

Conforms the Following Standard:

EMC Standards	CISPR22:2006 Class B	ETDC(Bg)/T-60331-1
Emission Standards		
Harmonics Current Voltage fluctuation and flicker test	IEC61000-3-2:2005 IEC61000-3-3:2005	ETDC(Bg)/T-60331-1
Immunity Standards 1.ESD 2.RS 3.EFTB 4.SURGE 5.Conducted RF 6.Magentic Field 7.Dip	IEC61000-4-2:2001 IEC61000-4-3:2006 IEC61000-4-4:2004 IEC61000-4-5:2005 IEC61000-4-6:2004 IEC61000-4-8:2001 IEC61000-4-11:2004	ETDC(Bg)/T-60331-1

when installed and operated in accordance with the manufacturers installation and operating instructions.

Jelenner ADDL. GENERAL MANAGER BANGALORE 11/12/09
Signature Position (SMT) Place & Date of Issue (T. KRISHNA KUMAR)



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Report No.: ETDC (Bg)/T-60321

TEST REPORT

1. Scope

1. Scope				
Service request number	60321			
Requested by (Name & Address of the Organization)	M/s. CEM Solutions Pvt Ltd, Akarsh Eco Place ,Ground Floor, 176 EPIP, Industrial Area, Kundalahalli, Whitefield, Bangalore-560066.			
Description of the equipment:				
a) Nomenclature	NANO PBX			
b) Manufactured by	CEM Solutions			
c) Model / type no.	CPX-002			
d) Serial no.	001(Prototype)			
Date of submission of samples	25-09-2009			
Condition of item on receipt	Good			
Date of completion of tests	25-09-2009			
Applicable test specification	IEC 61000-4-3:2006			
Test category	Performance Test			
Environment condition	Temp: 26 °C, RH: 65%			
	Service request number Requested by (Name & Address of the Organization) Description of the equipment: a) Nomenclature b) Manufactured by c) Model / type no. d) Serial no. Date of submission of samples Condition of item on receipt Date of completion of tests Applicable test specification Test category			

2. Major equipments used

Sl No	Nomenclature	Make	Model	Cal. Due
1	Signal Generator	Marconi	2030	MAY 2010
2	Biconicalog Antenna	Electro-metrics	EM-6917B-1	AUGUST 2010
3	E-field Sensor	DARE	RADISENSE	JAN 2010

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Report No.: ETDC (Bg)/T-60321

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Results:

Test : R F Radiated Immunity Specification : IEC 61000-4-3:2006

EUT Configuration: Nano PBX (Internet Private Branch Exchange) was powered by 220V AC/12V DC power adaptor. It is used to make internal calls, outgoing calls, as well as IP calls. It has 6 FXS and 2 FXO ports. During the test only one FXS and one FXO port was used for communication.

Wave shape / severity	Requirements	Test results
R.F Freq: 80 MHz-1 GHz Mod Freq: 1kHz Mod depth: 80% AM Angle: 0° / 90° / 180° / 270° Polarization: 1) Horizontal 2) Vertical Test Level : 2 Field Strength: 3 V/m	a. Normal performance within the specification limits. b. Temporary degradation or loss of function or performance which is self-recoverable. c. Temporary degradation or loss of function or performance which requires operator intervention or system reset. d. Degradation or loss of function which is not recoverable due to damage of equipment (Components) or software, or loss of data.	Meets the performance criteria (a).
	- During & after the test EUT should work satisfactorily and communication should not disturb.	- During & after the test EUT was working satisfactorily without disturbing the communication.

Tested By

(Hemant Kumar Sahu)

OVERNMENT OF IND

ELECTRONICS TEST & DEVELOPMENT CENTRE BANGALORE - 560 058

(Scientist 'B')

Date

EMC/FM-084-07

Approved By

Dr. N.C. JOSHI

Scientist 'E' **Electronics Test & Development Centre** Ministry of Comm. & IT., STQC Directorate, of India. Bangalore - 560 058.

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CO-ORDINATOR