

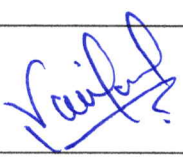

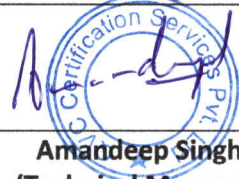

Test Report

Section-1

Test Report No: QVC/TEST/22/07/08	Page 1 of 67
Issue Date:	16/07/2022

Applicant Name &	Arogyam Medisoft Solution Pvt. Ltd.		
Address:-	Room no-21, Unit- 806, Work Nests, Tower- 2 Godrej Waterside, DP-5, Sec- V, Salt Lake, Kolkata -700091.		
Test Item:-	HaemurEx, Clinical Chemistry Analyzer		
Identification:-	HEX0031		
Discipline:-	Electronics	Group:-	Laboratory (IVD)
Job order no:-	QVC/SAMPLE/135	Date of receipt:-	07/06/2022
Serial no:-	Batch No: 8c:c5:e1:38:9c:69		
Testing laboratory & Its address:	QVC Certification Services Pvt. Ltd. 2-B, Civil Lines, Yukti business centre, Near Old session court, Ambala City-134003, Haryana, India.		
Test specification:	EN 61010-1: 2010+A1:2019 Safety Requirement For Electrical Equipment For Measuring, Control, And Laboratory Use , Part-1: General Requirement		
Test Result:	The test item passed the test specification.		
Other Aspects:-	This test report consist of two section: Section -1 (EN 61010-1:2010 +A1:2019) having 67 Pages. Section-2 (EN 61010-2:101:2002) having 12 Pages. Total number of pages 81 including Photographic attachment.		

Note:-This test report relates to the submitted test sample and list of documents attached. Without permission of the testing laboratory this test report is not permitted to be duplicated in extract.

Tested by:	Reviewed by:	Approved by / Authorized Signatory:	Issued by:
			
Manipal (Testing Engineer)	Amandeep Singh (Technical Manager)	Amandeep Singh (Technical Manager)	Ankit Kaushal (Deputy Quality Manager)
Date: 16/07/2022	Date: 16/07/2022	Date: 16/07/2022	Date: 16/07/2022

QVC Certification Services Pvt. Ltd.

Corporate & Head Office:

 2-B, Civil Lines, Yukti Business Centre, Near Old Session Court, Ambala City -134003, Haryana, INDIA
 Tel: +91-171- 2441127, 2441126, E-mail: cemark@qvcert.com, Website: www.qvcert.com


Test Report No: QVC/TEST/22/07/08





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Issue Date: 16/07/2022

Test Report
EN 61010-1: 2010+A1:2019
Safety Requirement For Electrical Equipment For Measuring, Control, And Laboratory Use.
Part-1: General Requirement

Report Reference No.:	QVC/TEST/22/07/08
Date of issue:	16/07/2022
Total number of pages :	67
Testing Location:	<input type="checkbox"/> Onsite <input checked="" type="checkbox"/> At Lab
Testing Laboratory :	QVC Certification Services Pvt. Ltd. 2-B, Civil Lines, Yukti business centre, Near Old session court, Ambala City-134003, Haryana, India.
Testing Laboratory Address:	Arogyam Medisoft Solution Pvt. Ltd.
Manufacturer's Name :	Room no-21, Unit- 806, Work Nests, Tower- 2 Godrej Waterside, DP-5, Sec- V, Salt Lake, Kolkata -700091.
Manufacturer's Address	
Standard:	EN 61010-1: 2010+A1:2019
Test procedure:	Compliance Report
Non-standard test method:	N/A
Test item description:	HaemurEx, Clinical Chemistry Analyzer
Trade Mark:	 AROGYAM MEDISOFT SOLUTION
Model/Type reference:	HaemurEx Rated Input: 5V=2000mA
Rating:	Internal Battery (Li-Polymer) Capacity: 3000mAh

Tested by:	Reviewed by:	Approved by / Authorized Signatory:	Issued by:
			
Manipal (Testing Engineer)	Amandeep Singh (Technical Manager)	Amandeep Singh (Technical Manager)	Ankit Kaushal (Deputy Quality Manager)
Date: 16/07/2022	Date: 16/07/2022	Date: 16/07/2022	Date: 16/07/2022

QVC Certification Services Pvt. Ltd.


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2-B, Civil Lines, Yukti Business Centre, Near Old Session Court, Ambala City -134003, Haryana, INDIA
 Tel: +91-171- 2441127, 2441126, E-mail: cemark@qvcert.com, Website: www.qvcert.com

Copy of Marking Plate/ Label:-

HaemurEx

IoT Enabled Device
For Examination of Blood and Urine



AROGYAM MEDISOFT SOLUTION

Product Name: HaemurEx, Clinical Chemistry Analyzer
Model: HaemurEx
Requires: HaemurEx Compatible Reagents
Input Rating: 5VDC $\overline{\text{---}}$ 2000mA
Power Consumption: 10W (Max)

Package Inclusions

- 1 Device
- 1 Stylus
- Micro tray for:
 - 1 Blood 1 Urine
- 1 Power adapter
- 1 Data Cable
- 1 Instruction Manual


Adaptor Rating:
Input: 100-240VAC \sim 50/60Hz, 0.5A
Output: 5VDC $\overline{\text{---}}$ 2000mA
Note: Use Recommended Power Adaptor with Device

CONTENTS NOT TO BE SOLD LOOSE
DESTROY PACK AFTER USE
REFER TO INSTRUCTION FOR USE


Contact Customer Service At:
www.arogyamedisoft.com

LOT

SN



Manufactured By:
Arogyam Medisoft Solution Pvt. Ltd.
Room No- 21, Unit-806, Work Nests,
Tower- 2 Godrej Waterside, DP-5,
Sec- V, Salt Lake, Kolkata - 700091



Made in India

Marking Label of Equipment Under Test (EUT)



Marking Label of Power Adaptor for Input Supply of EUT





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		Issue Date: 16/07/2022

Test Item particulars:-	HaemurEx, Clinical Chemistry Analyzer	
Classification of installation and use:	Laboratory (IVD) (Uses as per manufacturer instructions)	
Sample Received Condition	Good	
Operating Conditions	Continuous	
Special protection to IEC 60529	IPXX	
Pollution degree	2	
Mass of the Equipment	556.5 Gms (with Adaptor) 481.4 Gms (Without Adaptor)	
Dimension of the Equipment	L: 91.00mm X W: 108.01mm X H: 157.55mm	
Table – List of Attachments		
Attachments	Attachment description	No of pages in attachment
1	Photograph of test sample	02 (Page No. 81-82)
General remarks: The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Possible test case verdicts:		
- test case does not apply to the test object :	N/A	
-test is not evaluate to the test object:	N/E	
- test object does meet the requirement :	P (Pass)	
- test object does not meet the requirement :	F (Fail)	
Testing:	See Below	
Date of receipt of test item :	07/06/2022	
Date(s) of performance of tests :	08/06/2022 to 12/07/2022	
Laboratory conditions:	See Below	
Ambient Temperature:	(15 to 35) °C	
Ambient Humidity:	(45 to 75) % Rh	
General Product Information:- This product tested is a Blood & Urine Analyzer used for clinical purposes. The product is powered by certified AC/DC Adaptor. Technical Specifications: Rated input supply of power adaptor:- 100-240VAC, 50/60Hz, 0.5A Rated output of power adaptor: 5VDC $\overline{\text{---}}$ 2000mA. Rated Input of equipment: 5VDC $\overline{\text{---}}$ 2000mA. Internal Battery (Li-Polymer) Capacity: 3000mAh		
Additional Information: N/A		


LIST OF INSTRUMENTS USED IN TESTING

S.No.	Instrument Name	Instrument Id	Range
1	Electrical Safety Analyzer	QVC/TEST/ESA-01	AC Voltage: 0V to 4.99 kV Power: 0W to 19.99W Touch leakage current: 0mA to 19.99mA
2	Digital Vernier Caliper	QVC/TEST/DVC-01	Range: 0-200mm
3	Digital Multimeter	QVC/TEST/DMM-01	Voltage: 3V to 1000V Current: 3mA Resistance: 300Ω to 3MΩ
4	Climatic Chamber	QVC/TEST/CTC-01	Temperature: -70°C to 180°C Humidity: 10% to 98% RH
5	Hot Air Oven	QVC/TEST/HAO-01	upto 250°C
6	Digital Push and Pull Force Gauge	QVC/TEST/DPPG-01	Range: 0-2000N
7	Digital Hygrometer	QVC/TEST/TH-01	Temperature : -50 ~ 70°C Humidity: 10% to 99% RH
8	Digital Stopwatch	QVC/TEST/ST-01	Range: 0-23 Hour 59 Minutes 59 Second
9	Weighing Balance	QVC/TEST/DWB-01	Range: 0 to 10 Kg
10	Digital Storage Oscilloscope	QVC/TEST/DSO-01	Bandwidth: 100 MHz Sample rate: 2 .0 GS/s DC gain accuracy: ±3%, from 10 mV/div to 5 V/div
11	Multi Test Panel	QVC/TEST/MTP-01	---
i	Digital Volt Meter- Multi Test Panel	QVC/TEST/DVM-01	0-300 Volt
ii	Digital Amp. Meter- Multi Test Panel	QVC/TEST/DAM-01	0-20 Amp.
iii	Digital Frequency Meter - Multi Test Panel	QVC/TEST/MT/DFM-01	45-99.99 Hz
iv	Digital Volt Meter for PAES test - Multi Test Panel	QVC/TEST/PAES/DVM- 01	0-60 Volt
12	Torque screwdriver	QVC/TEST/TS-01	Range: 1Nm to 5Nm Accuracy: ±3%
13	Jointed Test Finger IP 2X	QVC/TEST/JTF-01	Finger length: 180mm A per Fig. 2 of IEC 61032
14	Data Logger (16 CH.) with Sensor	QVC/TEST/DTS01	Range: -200 °C to 400 °C
15	Pendulum impact tester weight	QVC/TEST/PITW01	Ball Dia.: 50mm Weight of ball: 500gms
16	Test Probe 11	QVC/TEST/Probe -11	Length: 80mmDia: 12mm Fingertip: 20mm As per Fig. 7 of IEC 61032

Clause	Requirements- Test	Remarks	Verdict
4	TESTS		P
4.4	Testing in SINGLE FAULT CONDITIONS	See Below	P
4.4.1	Fault tests	See Table 4.4	P
4.4.2	Application of FAULT CONDITIONS	See Below	P
4.4.2.1	SINGLE FAULT CONDITIONS not covered by 4.4.2.2 to 4.4.2.14	See Table 4.4	---
4.4.2.2	PROTECTIVE IMPEDANCE	No protective impedance	N/A
4.4.2.3	PROTECTIVE CONDUCTOR	No protective conductor	N/A
4.4.2.4	Equipment or parts for short-term or intermittent operation	continuous operation	N/A
4.4.2.5	Motors	No Motors	N/A
	- stopped while fully energized		N/A
	— prevented from starting		N/A
	— one phase interrupted (multi-phase)		N/A
4.4.2.6	Capacitors		N/A
4.4.2.7	MAINS transformers		N/A
4.4.2.7.2	Short circuit		N/A
4.4.2.7.3	Overload		N/A
4.4.2.8	Outputs		N/A
4.4.2.9	Equipment for more than one supply	Device operates only with one type of supply but having internal battery which is integral part of the product.	N/A
4.4.2.10	Cooling	No such Construction	N/A
	- air holes closed		N/A
	— fans stopped	No fans	N/A
	— coolant stopped		N/A
	— loss of cooling liquid		N/A
4.4.2.11	Heating devices	No such Construction	N/A
	— timer overridden		N/A
	— temperature controller overridden		N/A
4.4.2.12	Insulation between circuits and parts		N/A
4.4.2.13	Interlocks	No such parts	N/A
4.4.2.14	Voltage selectors		N/A

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				Issue Date: 16/07/2022	
Clause	Requirements- Test	Remarks	Verdict		
4.4.3	Duration of tests	See Table 4.4	P		
4.4.4	Conformity after application of fault conditions	No fire, excessive Temperatures observed (See Table 4.4)	P		
5	MARKING AND DOCUMENTATION			P	
5.1.1	Required equipment markings	See Below	-		
	- visible from the exterior; or	The marking of device is visible from exterior.	P		
	— visible after removing cover or opening door	No such parts	N/A		
	— visible after removal from a rack or panel		N/A		
	Not put on parts which can be removed by an operator	No such parts	N/A		
	Letter symbols (IEC 60027) used	Complies	P		
	Graphic symbols (IEC 61010-1: Table 1) used	Complies DC: 	P		
5.1.2	Identification	Complies	P		
	Equipment is identified by:	See Below	—		
	a) Manufacturer's or supplier's name or trademark		P		
	b) Model number, name or other means	Type reference: HaemurEx	P		
	Manufacturing location identified	Complies MADE IN INDIA	P		
5.1.3	MAINS supply	See Below	P		
	Equipment is marked as follows:		—		
	a) Nature of supply:	DC marked	P		
	1) a.c. RATED MAINS frequency or range of frequencies		N/A		
	2) d.c. with symbol 1		P		
	b) RATED supply voltage(s) or range	Rated Input: 5V  2000mA Internal Battery: 3000mAh	P		

Clause	Requirements- Test	Remarks	Verdict
	c) Max. RATED power (W or VA) or input current	12W	P
	The marked value not less than 90 % of the maximum value	See Table 5.13C	P
	If more than one voltage range:	Complies	P
	Separate values marked; or	5V---2000mA	P
	Values differ by less than 20 %		N/A
	d) OPERATOR-Set for different RATED supply voltages:	No operator set	—
	Indicates the equipment set voltage		N/A
	Portable equipment indication is visible from the exterior		N/A
	Changing the setting changes the indication		N/A
	e) Accessory MAINS socket-outlets accepting standard MAINS plugs are marked:	No accessory mains socket outlets	—
	For use only with specific equipment		N/A
	If not marked for specific equipment it is marked with:		—
	The maximum rated current or power; or		N/A
	Symbol 14 with full details in the documentation		N/A
5.1.4	Fuses		N/A
	Operator replaceable fuse marking (see also 5.4.5)	No	N/A
5.1.5	TERMINALS, connections and operating devices		N/A
5.1.5.1	General		—
	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked		N/A
	If insufficient space, symbol 14 used		---
	Push-buttons and actuators of emergency stop devices and indicators:	No such part	N/A
	— used only to indicate a warning of danger; or		N/A
	— the need for urgent action		N/A
	— coloured red		N/A
	— coded as specified in IEC 60073		N/A

Clause	Requirements- Test	Remarks	Verdict
	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):		—
	— to safety of persons; or		N/A
	— safety of the environment		N/A
5.1.5.2	TERMINALS		N/A
	MAINS supply TERMINAL identified		N/A
	Other TERMINAL marking:		N/A
	a) FUNCTIONAL EARTH TERMINALS (symbol 5 used)		N/A
	b) PROTECTIVE CONDUCTOR TERMINALS:		N/A
	Symbol 6 is placed close to or on the TERMINAL; or		N/A
	Part of appliance inlet		N/A
	c) TERMINALS of control circuits (symbol 7 used)		N/A
	d) HAZARDOUS LIVE TERMINALS supplied from the interior		N/A
	Standard MAINS socket outlet; or		N/A
	RATINGS marked; or		N/A
	Symbol 14 used		N/A
5.1.6	Switches and circuit breakers	No switches and circuit breakers available	N/A
	If disconnecting device, off position clearly marked		N/A
	If push-button used as power supply switch:		N/A
	— symbol 9 and 15 used for on-position		N/A
	— symbol 10 and 16 used for off-position		N/A
	— pair of symbols 9, 15 and 10, 16 close together		N/A
5.1.7	Equipment protected by DOUBLE INSULATION or REINFORCED INSULATION	Equipment class II device Symbol marked on power adaptor 	P
	Protected throughout (symbol 11 used)		N/A
	Only partially protected (symbol 11 not used)		N/A
5.1.8	Field-wiring TERMINAL boxes	No such Construction	N/A
	If TERMINAL or ENCLOSURE exceeds 60 °C:		—
	Cable temperature RATING marked		—

Clause	Requirements- Test	Remarks	Verdict
	Marking visible before and during connection or beside TERMINAL		N/A
5.2	Warning markings	Complies	P
	Visible when ready for NORMAL USE		N/A
	Are near or on applicable parts		N/A
	Symbols and text correct dimensions and colour:		—
	a) symbols min 2,75 mm and text 1,5 mm high and contrasting in colour with background	Complies	P
	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and		N/A
	0,5 mm depth or raised if not contrasting in colour		N/A
	If necessary marked with symbol 14		N/A
	Statement to isolate or disconnect if access by using a tool to HAZARDOUS LIVE parts is permitted		N/A
5.3	Durability of markings	Markings are durable and legible after test.	P
	The required markings remain clear and legible in NORMAL USE	Complies (See Table 5.3)	P
5.4	Documentation	Complies	P
5.4.1	General		---
	Equipment is accompanied by documentation for safety purposes for OPERATOR or RESPONSIBLE BODY		P
	Safety documentation for service personnel authorized by the manufacturer		P
	Documentation necessary for safe operation is provided in printed media or		P
	in electronic media if available at any time		N/A
	Documentation includes:	Complies	—
	a) intended use	Specified in user manual	P
	b) technical specification	Specified in user manual	P
	c) name and address of manufacturer or supplier	Specified in user manual	P
	d) information specified in 5.4.2 to 5.4.6		P

Clause	Requirements- Test	Remarks	Verdict
	e) information to mitigate residual RISK (see also sub clause 17)	No residual risks	N/A
	f) accessories for safe operation of the equipment specified	No such accessories	N/A
	g) guidance provided to check correct function of the equipment, if incorrect reading may cause a HAZARD from harmful or corrosive substances of HAZARDOUS live parts	No such hazard	N/A
	h) instructions for lifting and carrying	Deemed not required	N/A
	Warning statements and a clear explanation of warning symbols:		—
	— provided in the documentation; or		N/A
	— information is marked on the equipment		N/A
5.4.2	Equipment ratings	See Below	P
	Documentation includes:		—
	a) Supply voltage or voltage range		N/A
	Frequency or frequency range		N/A
	Power or current rating	Input Rating : 5V --- 2000mA Internal Battery: 3000mAh	P
	b) Description of all input and output connections in accordance to 6.6.1 a)		N/A
	c) RATING of insulation of external circuits in accordance to 6.6.1 b)		N/A
	d) Statement of the range of environmental conditions (see 1.4)		N/A
	e) Degree of protection (IEC 60529)	IP XX	N/A
	f) If impact rating less than 5 J:	No impact rating less than 5 J	—
	IK code in accordance to IEC 62262 marked; or		N/A
	symbol 14 of table 1 marked, with		N/A
	RATED energy level and test method stated		N/A
5.4.3	Equipment installation	Special safety installation instructions deemed required	P
	Documentation includes instructions for:		—
	a) assembly, location and mounting requirements	Mention in documentation	P
	b) protective earthing		N/A

Clause	Requirements- Test	Remarks	Verdict
	c) connections to supply	Mention in documentation	P
	d) PERMANENTLY CONNECTED EQUIPMENT:	Complies	P
	1) Supply wiring requirements		N/A
	2) If external switch or circuit-breaker, requirements and location recommendation		N/A
	e) ventilation requirements		N/A
	f) special services (e. g. air, cooling liquid)		N/A
	g) instructions relating to sound level		N/A
5.4.4	Equipment operation	Mention in documentation	P
	Instructions for use include:		—
	a) identification and description of operating controls	Provided	P
	b) positioning for disconnection	Deemed not required	N/A
	c) instructions for interconnection		N/A
	d) specification of intermittent operation limits		N/A
	e) explanation of symbols used		N/A
	f) replacement of consumable materials	Instruction of recommended consumable provided in User manual	P
	g) cleaning and decontamination	Instruction of cleaning provided in User Manual	P
	h) listing of any poisonous or injurious gases and quantities	No such gases	N/A
	i) RISK reduction procedures relating to Flammable liquids (see 9.5)	No flammable liquids	N/A
	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	No heated surfaces	N/A
	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids	Precautionary instruction for moisture and liquids has been written in the User Manual.	P
	A statement about protection impairment if used in a manner not specified by the manufacturer	No flammable liquids	N/A
5.4.5	Equipment maintenance and Service	Specified in user manual	P

Clause	Requirements- Test	Remarks	Verdict
	Instructions for RESPONSIBLE BODY include:		—
	Instructions sufficient in detail permitting safe maintenance and inspection and continued		—
	Instruction against the use of detachable MAINS supply cord with inadequate rating	No such cord	N/A
	Specific battery type of user replaceable batteries		N/A
	Any manufacturer specified parts		N/A
	Rating and characteristics of fuses		N/A
	Instructions include following subjects permitting safe servicing and continued safety:	No such risks	—
	a) product specific RISKS may affect service personnel		N/A
	b) protective measures for these RISKS		N/A
	c) verification of the safe state after repair		N/A
5.4.6	Integration into systems or effects resulting from special conditions	Not intended for such use	N/A
	Aspects described in documentation		N/A
6	PROTECTION AGAINST ELECTRIC SHOCK		P
6.1	General	Complies (See Table 6.2)	P
6.1.1	Requirements	See Below	—
	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Complies	P
	ACCESSIBLE parts not HAZARDOUS LIVE	Accessible parts are not hazardous live in normal and single fault condition. Reinforced insulation provided	P
	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:		—
	ACCESSIBLE parts and earth		N/A
	two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8		N/A
	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11		N/A
6.1.2	Exceptions	No exceptions applied	N/A

Clause	Requirements- Test	Remarks	Verdict
	Following HAZARDOUS LIVE parts may be ACCESSIBLE to an OPERATOR:		-
	a) parts of lamps and lamp sockets after lamp removal	No such construction	N/A
	b) parts to be replaced by OPERATOR only by the use of tool and warning marking	No such part	N/A
	Those parts not HAZARDOUS LIVE 10 S after interruption of supply	No such construction	N/A
	Capacitance test if charge is received from internal capacitor		N/A
6.2	Determination of ACCESSIBLE parts	Complies	P
6.2.1	General	See Below	---
	Unless obviously determination of ACCESSIBLE parts as specified in 6.2.2 to 6.2.4	See Table 6.2	P
6.2.2	Examination	See Below	P
	— with jointed test finger (as specified B.2)	No hazardous live parts, no hazardous voltages	P
	— with rigid test finger (as specified B.1) and a force Of10 N	No hazardous live parts, no hazardous voltages	P
6.2.3	Openings above parts that are HAZARDOUS LIVE	No opening enclosure	N/A
	— test pin with length of 100 mm and 4 mm in diameter applied		N/A
6.2.4	Openings for pre-set controls	No such openings	N/A
	— test pin with length of 100 mm and 3 mm in diameter applied		N/A
6.3	Limit values for ACCESSIBLE parts		P
6.3.1	Levels in NORMAL CONDITION	See Below	P
	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	See Table 6.3.1	P
	for WET LOCATIONS voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.		N/A
	Voltages are not HAZARDOUS LIVE the levels of:		—
	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non-sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz		N/A

Clause	Requirements- Test	Remarks	Verdict
	for WET LOCATIONS measuring circuit A.4 used		N/A
	70 mA r.m.s. when measured with circuit A.3 for higher frequencies or		N/A
	c) Levels of capacitive charge or energy less:		--
	1) 45 pC for voltages up to 15 kV peak or d.c. or line A of Figure 3		N/A
	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.		N/A
6.3.2	Levels in SINGLE FAULT CONDITION	See Below	P
	a) Voltage limits less than 55 V r.m.s. and 78 V peak or 140 V d.c.	See table 6.3.2	P
	for WET LOCATIONS voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.		N/A
	Voltages are not HAZARDOUS LIVE the levels of:		--
	b) Current less than 3,5 mA r.m.s. for sinusoidal, 5 mA peak non-sinusoidal or mixed frequencies or 15 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz		N/A
	for WET LOCATIONS measuring circuit A.4 used		N/A
	500 mA r.m.s. when measured with circuit A.3 For higher frequencies		N/A
	c) Levels of capacitive charge or energy less line B of Figure 3		N/A
6.4	Primary means of protection	See Below	P
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:		-
	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)	Complies	P
	b) BASIC INSULATION (see 6.4.3)	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	N/A
	c) Impedance (see 6.4.4)	No such part	N/A
6.4.2	ENCLOSURES or PROTECTIVE BARRIERS	See Below	P
	- meet rigidity requirements of 8.1	See tale 8.1	P

Clause	Requirements- Test	Remarks	Verdict
	— meet requirements for BASIC INSULATION, if protection is provided by insulation		N/A
	— meet requirements of 6.7 for CREEPAGE and — CLEARANCES between ACCESSIBLE parts and — HAZARDOUS live parts, if protection is provided by — limited access		N/A
6.4.3	BASIC INSULATION	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	--
	— meet CLEARANCE, CREEPAGE DISTANCE and solid — insulation requirements of 6.7		N/A
6.4.4	Impedance	No such part	N/A
	Impedance used as primary means of protection meets all of following requirements:		—
	a) limits current or voltage to level of 6.3.2		N/A
	b) RATED for maximum WORKING VOLTAGE and the amount of power it will dissipate		N/A
	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASIC INSULATION of 6.7		N/A
6.5	Additional means of protection in case of SINGLE FAULT CONDITION	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	-
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:		—
	a) PROTECTIVE BONDING (see 6.5.2)		N/A
	b) SUPPLEMENTARY INSULATION (see 6.5.3)		N/A
	c) automatic disconnection of the supply (see 6.5.5)		N/A
	d) current- or voltage-limiting device (see 6.5.6)		N/A
	Alternatively one of the single means of protection is used:		—
	e) REINFORCED INSULATION (see 6.5.3)		N/A
	f) PROTECTIVE IMPEDANCE (see 6.5.4)		N/A
6.5.2	PROTECTIVE BONDING	No such Part	N/A

Clause	Requirements- Test	Remarks	Verdict
6.5.2.1	ACCESSIBLE conductive parts, may become HAZARDOUS LIVE in SINGLE FAULT CONDITION:		—
	Bonded to the PROTECTIVE CONDUCTOR TERMINAL;		N/A
	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL		N/A
6.5.2.2	Integrity of PROTECTIVE BONDING	No such part	—
	a) PROTECTIVE BONDING consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses		N/A
	b) Soldered connections:		—
	Independently secured against loosening		N/A
	Not used for other purposes		N/A
	c) Screw connections are secured		N/A
	d) PROTECTIVE BONDING not interrupted; or		N/A
	exempted as removable part carries MAINS SUPPLY input connection		N/A
	e) Any movable PROTECTIVE BONDING connection specifically designed, and meets		N/A
	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)		N/A
	g) IF MAINS SUPPLY passes through:		—
	Means provided for passing protective conductor;		N/A
	Impedance meets 6.5.2.4		N/A
	h) Protective conductors bare or insulated, if insulated, green/yellow		N/A
	Exceptions:		—
	1) earthing braids;		N/A
	2) internal protective conductors etc.;		N/A
	Green/yellow not used for other purposes		N/A
	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3		N/A
6.5.2.3	PROTECTIVE CONDUCTOR TERMINAL	No such construction	—

Clause	Requirements- Test	Remarks	Verdict
	a) Contact surfaces are metal		N/A
	b) Appliance inlet used		N/A
	c) For rewirable cords and PERMANENTLY CONNECTED EQUIPMENT, PROTECTIVE CONDUCTOR TERMINAL is close to MAINS supply TERMINALS		N/A
	d) If no MAINS supply is required, any PROTECTIVE CONDUCTOR TERMINAL:		—
	Is near terminals of circuit for which protective earthing is necessary		N/A
	External if other terminals external		N/A
	e) Equivalent current-carrying capacity to MAINS supply TERMINALS		N/A
	f) If plug-in, makes first and breaks last		N/A
	g) If also used for other bonding purposes, PROTECTIVE CONDUCTOR:		—
	Applied first;		N/A
	Secured independently;		N/A
	Unlikely to be removed by servicing		N/A
	h) PROTECTIVE CONDUCTOR of measuring circuit:		—
	1) Current RATING equivalent to measuring circuit TERMINAL;		N/A
	2) PROTECTIVE BONDING: not interrupted by Any switch or interrupting device		N/A
	i) FUNCTIONAL EARTH TERMINALS allow independent connection		N/A
	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:		N/A
	Suitable size for bond wire		N/A
	Not smaller than M 4		N/A
	At least 3 turns of screw engaged		N/A
	Passes tightening torque test		N/A
	k) Contact pressure not capable being reduced by deformation of materials		N/A

Clause	Requirements- Test	Remarks	Verdict
6.5.2.4	Impedance of PROTECTIVE BONDING of plug-connected equipment	No Such part	N/A
	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:		—
	— less than 0,1 Ohm; or		N/A
	— less than 0,2 Ohm if equipment is provided with non-detachable cord		N/A
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT		N/A
6.5.2.6	Transformer PROTECTIVE BONDING screen		N/A
	Transformer provided with screen for PROTECTIVE BONDING:screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see 6.5.2.2 a)		N/A
	screen bonding with soldered connection (see 6.5.2.2 b) is:		N/A
	— Independently secured against loosening		N/A
	— Not used for other purposes		N/A
6.5.3	SUPPLEMENTARY and REINFORCED INSULATION	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	—
	Meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7		N/A
6.5.4	PROTECTIVE IMPEDANCE	No such construction	N/A
	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION		N/A
	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCED INSULATION of 6.7		N/A
	The PROTECTIVE IMPEDANCE consists of one or more of the following:		—
	a)appropriate single component suitable for safety and reliability for protection, it is:		—

Clause	Requirements- Test	Remarks	Verdict
	1) RATED twice the maximum WORKING VOLTAGE		N/A
	2) resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE		N/A
	b) combination of components		N/A
	Single electronic device not used as PROTECTIVE IMPEDANCE		N/A
6.5.5	Automatic disconnection of the supply	No such construction	N/A
	a) RATED to disconnect the load within time specified in Figure 2		N/A
	b) RATED for the maximum load conditions of the equipment		N/A
6.5.6	Current- or voltage-limiting devices	No such construction	N/A
	Device complies with all of:		—
	a) RATED to limit the current or voltage to the level of 6.3.2		N/A
	b) RATED for the maximum WORKING VOLTAGE; and		N/A
	RATED for the maximum operational current if applicable		N/A
	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7		N/A
6.6	Connections to external circuits	No such provision	N/A
6.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:	See below	—
	— the external circuits		N/A
	— the equipment		N/A
	Protection achieved by separation of circuits; or		N/A
	short circuit of separation does not cause a HAZARD		N/A

Clause	Requirements- Test	Remarks	Verdict
	Instructions or markings for each terminal include:		N/A
	a) RATED conditions for TERMINAL		N/A
	b) Required RATING of external circuit insulation		N/A
6.6.2	TERMINALS for external circuits		N/A
	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection		N/A
6.6.3	Circuits with terminals which are HAZARDOUS LIVE	No such construction	N/A
	These circuits are:		—
	Not connected to ACCESSIBLE conductive parts; or		N/A
	Connected to ACCESSIBLE conductive parts, but are not MAINS CIRCUITS and have one TERMINAL contact at earth potential		N/A
	No ACCESSIBLE conductive parts are HAZARDOUS LIVE		N/A
6.6.4	ACCESSIBLE terminals for stranded conductors		N/A
	No RISK of accidental contact because:		--
	- Located or shielded		N/A
	— Self-evident or marked whether or not connected to ACCESSIBLE conductive		N/A
	ACCESSIBLE TERMINALS will not work loose		N/A
6.7	Insulation requirements		--
6.7.1	The nature of insulation	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	—
6.7.1.1	Insulation between ACCESSIBLE parts or between separate circuits consist of CLEARANCES, CREEPAGE DISTANCES and solid insulation if provided as protection against a HAZARD		N/A

Clause	Requirements- Test	Remarks	Verdict
6.7.1.2	CLEARANCES	All factors considered as per clause, operating altitude of max. 2000m assumed	—
	Required CLEARANCES reflecting factors of 6.7.1.1		N/A
	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010-1 applied		N/A
6.7.1.3	CREEPAGE DISTANCES		—
	Required CREEPAGE DISTANCES reflecting factors of 6.7.1.1 a) to d)		N/A
	CTI material group reflected by requirements		N/A
	CTI test performed		N/A
6.7.1.4	Solid insulation		—
	Required solid insulation reflecting factors of 6.7.1.1 a) to d)		N/A
6.7.1.5	Requirements for insulation according to type of circuit		N/A
	a) 6.7.2 MAINS circuits of OVERVOLTAGE CATEGORY II		N/A
	b) 6.7.3 secondary circuits separated from circuits defined in a) by transformer		N/A
	c) K.1 MAINS circuits of OVERVOLTAGE CATEGORY III and IV or OVERVOLTAGE CATEGORY II over 300 V		N/A
	d) K.2 secondary circuits separated from circuits defined in c) by transformer		N/A
	e) K.3 circuits having one or more of:		—
	1) maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT		N/A
	2) maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT		N/A
	3) WORKING VOLTAGE is the sum of more than One circuit or a mixed voltage		N/A
	4) WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform		N/A
	5) WORKING VOLTAGE with a frequency above 30 kHz		N/A

Clause	Requirements- Test	Remarks	Verdict
6.7.2	Insulation for MAINS CIRCUITS of OVERVOLTAGE CATEGORY II with a nominal supply voltage up to 300 V		N/A
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES		N/A
	Values for MAINS CIRCUITS of Table 4 are met		-
	Coatings to achieve reduction to POLLUTION DEGREE 1 comply with requirements of Annex H		N/A
6.7.2.2	Solid insulation	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	N/A
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4		--
	Equipment passed voltage tests of 6.8.3 with values of Table 5		N/A
	Complies as applicable:		—
	a) ENCLOSURE or PROTECTIVE BARRIER of Clause 8	See table 8.1	N/A
	b) molded and potted parts requirements of 6.7.2.2.2		N/A
	c) inner layers of printed wiring boards requirements of 6.7.2.2.3		N/A
	d) thin-film insulation requirements of 6.7.2.2.4		N/A
6.7.2.2.2	Moulded and potted parts	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	N/A
	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	N/A
6.7.2.2.3	Inner insulating layers of printed wiring boards		N/A
	Separated by at least 0,4 mm between same two layers		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		—
	a) thickness of insulation is at least 0,4 mm		N/A
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION		N/A

Clause	Requirements- Test	Remarks	Verdict
	c) insulation is assembled of minimum two separate layers, where the combination is rated for test voltage of Table 5 for REINFORCED INSULATION		N/A
6.7.2.2.4	Thin-film insulation		N/A
	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCE of 6.7.2.1		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		—
	a) thickness through the insulation at least 0,4 mm		N/A
	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION		N/A
	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests of 6.8.3 with values of Table 5 for REINFORCED INSULATION		N/A
6.7.3	Insulation for secondary circuits derived from MAINS CIRCUITS of OVERVOLTAGE CATEGORY II up to 300 V		N/A
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:		N/A
	— REINFORCED INSULATION		N/A
	— DOUBLE INSULATION		N/A
	— screen connected to the PROTECTIVE CONDUCTOR TERMINAL		N/A
6.7.3.2	CLEARANCES	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	N/A
	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or		N/A
	twice the values of Table 6 for REINFORCED INSULATION or		N/A
	b) pass the voltage tests of 6.8 with values of Table 6;		—
	with following adjustments:		—

Clause	Requirements- Test	Remarks	Verdict
	1. values for reinforced insulation are 1,6 times the values for basic insulation		N/A
	2. if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	operating altitude is < 2000m	N/A
	3. minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3		N/A
6.7.3.3	CREEPAGE DISTANCES	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	N/A
	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION		N/A
	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION		N/A
	Coatings to achieve reduction to POLLUTION DEGREE 1 comply with requirements of Annex H		N/A
6.7.3.4	Solid insulation	No such insulation relied upon	N/A
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	No such insulation relied upon	—
	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION		N/A
	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION		N/A
	b) if WORKING VOLTAGE exceeds 300 V, equipment passed voltage test of 6.8.3.1 for 1 min with a test voltage of 1,5 times working voltage for BASIC or SUPPLEMENTARY INSULATION		N/A
	value for REINFORCED INSULATION are twice the WORKING VOLTAGE		N/A
	Complies as applicable:		—
	1) ENCLOSURE or PROTECTIVE BARRIER Of Clause 8		N/A
	2) moulded and potted parts requirements of 6.7.3.4.2		N/A
	3) inner layers of printed wiring boards requirements of		N/A

Clause	Requirements- Test	Remarks	Verdict
	4) thin-film insulation requirements of 6.7.3.4.4		N/A
6.7.3.4.2	Moulded and potted parts		—
	Conductors between same two layers are separated by applicable distances of Table 8		N/A
6.7.3.4.3	Inner insulation layers of printed wiring boards	No such construction	N/A
	Separated by at least by applicable distances of Table 8 between same two layers		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods		—
	a) thickness at least applicable distance of Table 8		N/A
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION		N/A
	c) insulation is assembled of min two separate layers, where the combination is RATED for 1,6 times the test voltage of Table 6		N/A
6.7.3.4.4	Thin-film insulation	No such part	N/A
	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCE of 6.7.3.2 and 6.7.3.3		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		—
	a) thickness at least applicable distance of Table 8		N/A
	b) insulation is assembled of min. two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION		N/A
	c) insulation is assembled of min. three separate layers, where the combination of two layers passed voltage tests with 1,6 time values of Table 6:		—
	a.c. test of 6.8.3.1; or		N/A
	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages		N/A
6.8	Procedure for dielectric strength tests	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	N/A
6.9	Constructional requirements for protection against electric shock	IS 13252 (part 1) Certified Power Adaptor & EUT is used.	N/A

Clause	Requirements- Test	Remarks	Verdict
6.9.1	If a failure could cause a HAZARD:		—
	a) security of wiring connections		N/A
	b) screws securing removable covers		N/A
	c) accidental loosening		N/A
	d) CLEARANCES and CREEPAGE DISTANCES not reduced below the values of basic insulation by loosening of parts or wires		N/A
6.9.2	Insulating materials		N/A
	Material not to be used for safety relevant insulation:		—
	a) easily damaged materials not used		N/A
	b) non-impregnated hygroscopic materials not used	Non-hygroscopic material used.	N/A
6.9.3	Colour coding	Class II device	N/A
	Green-and-yellow insulation shall not be used except:		—
	a) protective earth conductors;		N/A
	b) PROTECTIVE BONDING conductors;		N/A
	c) potential equalization conductors;		N/A
	d) functional earth conductors		N/A
6.10	Connection to MAINS supply source and connections between parts of equipment	Complies	P
6.10.1	MAINS supply cords	Detachable supply cord	P
	RATED for maximum equipment current		N/A
	Cable complies with IEC 60227 or IEC 60245		N/A
	Heat-resistant if likely to contact hot parts		N/A
	Temperature RATING (cord and inlet)		—
	Green/yellow used only for connection to PROTECTIVE CONDUCTOR TERMINALS		N/A
	Detachable cords with IEC 60320 MAINS connectors:		—
	Conform to IEC 60799; or		N/A
	Have the current RATING of the MAINS connector		N/A
6.10.2	Fitting of non-detachable MAINS supply cords		—
6.10.2.1	Cord entry		—

Clause	Requirements- Test	Remarks	Verdict
	a) inlet or bushing with a smoothly rounded opening; or		N/A
	b) insulated cord guard protruding >5 D (diameter)		N/A
6.10.2.2	Cord anchorage	No such Construction	—
	Protective earth conductor is the last to take the strain		N/A
	a) cord is not clamped by direct pressure from a screw		N/A
	b) knots are not used		N/A
	c) cannot push the cord into the equipment to cause a HAZARD		N/A
	d) no failure of cord insulation in anchorage with metal parts		N/A
	e) not to be loosened without a tool		N/A
	f) cord replacement does not cause a HAZARD and method of strain relief is clear		N/A
	Push-pull and or torque test		N/A
6.10.3	Plugs and connectors	Complies	P
	MAINS supply plugs, connectors etc., conform with relevant specifications		P
	If equipment supplied at voltages below 6.3.2.a) or from a sole source:	The detachable supply cord having rated supply voltage of DC: 5 V	P
	Plugs of supply cords do not fit MAINS sockets above rated SUPPLY voltage	Complies Detachable Micro USB – USB cable is used.	P
	MAINS type plugs used only for connection to MAINS supply		N/A
	Plug pins which receive a charge from an internal capacitor	IS 13252 (Part 1) Certified power adaptor & EUT is used.	N/A
	Accessory MAINS socket outlets:		—
	a) marking if accepts a standard MAINS supply plug (see 5.1.3e)		N/A
	b) input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT		N/A

Clause	Requirements- Test	Remarks	Verdict
6.11	Disconnection from supply source		N/A
6.11.1	Disconnects all current-carrying conductors		N/A
6.11.2	Exceptions		N/A
6.11.3	Requirements according to type of equipment		N/A
6.11.3.1	PERMANENTLY CONNECTED EQUIPMENT and multi-phase equipment	Single phase equipment	N/A
	Employs switch or circuit-breaker		N/A
	If switch or circuit-breaker is not part of the equipment, documentation requires:		N/A
	a) switch or circuit-breaker to be included in building installation		N/A
	b) suitable location easily reached		N/A
	c) marking as disconnecting for the equipment		N/A
6.11.3.2	Single-phase cord-connected equipment		N/A
	Equipment is provided with one of the following:		—
	a) switch or circuit-breaker		N/A
	b) appliance coupler (disconnect without tool)	Detachable Micro USB – USB cable is used.	N/A
	c) separable plug (without locking device)		N/A
6.11.4	Disconnecting devices		N/A
6.11.4.1	Disconnecting device part of equipment		N/A
	Electrically close to the SUPPLY		N/A
	Power-consuming components not electrically located between the supply source and the disconnecting device		N/A
	Except electromagnetic interference suppression circuits permitted to be located on the supply side of the disconnecting device		N/A
6.11.4.2	Switches and circuit-breakers		N/A
	When used as disconnection device:		—
	Meets IEC 60947-1 and IEC 60947-3		N/A

Clause	Requirements- Test	Remarks	Verdict
	Marked to indicate function		—
	Not incorporated in MAINS cord		N/A
	Does not interrupt PROTECTIVE EARTH CONDUCTOR		N/A
6.11.4.3	Appliance couplers and plugs		N/A
	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):		—
	Readily identifiable and easily reached by the operator		N/A
	Single-phase portable equipment cord length not more than 3 m		N/A
	PROTECTIVE EARTH CONDUCTOR connected first and disconnected last.		N/A
7	PROTECTION AGAINST MECHANICAL HAZARDS		P
7.1	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	Complies	P
	Conformity is checked by 7.2 to 7.7	See Below	---
7.2	Sharp edges	No sharp edges	P
	Easily touched parts are smooth and rounded		P
	Do not cause injury during NORMAL USE and	Complies	P
	Do not cause injury during SINGLE FAULT CONDITION	Complies	P
7.3	Moving parts	No moving parts	N/A
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5	No such hazards	N/A
	RISK assessment in accordance with 7.3.3 carried out		N/A
7.3.2	Exceptions	No Exceptions	N/A
	Access to HAZARDOUS moving parts permitted under following circumstances:	No moving parts	—
	a) obviously intended to operate on parts or materials external of the equipment		N/A

Clause	Requirements- Test	Remarks	Verdict
	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles)		N/A
	b) If OPERATOR access is unavoidable outside NORMAL USE following precautions have been taken:		—
	1) access requires TOOL		N/A
	2) statement about training in the instructions		N/A
	3) warning markings on covers prohibiting access by untrained OPERATORS		N/A
	or symbol 14 with full details in documentation		N/A
7.3.3	RISK assessment for mechanical HAZARDS to body parts	No moving parts	N/A
	RISK is reduced to a tolerable level by protective measures as specified in table 12		N/A
	Minimum protective measures:		—
	A. Low level measures		N/A
	B. Moderate measures		N/A
	C. Stringent measures		N/A
7.3.4	Limitation of force and pressure	No such hazards	N/A
	Following levels are met in NORMAL and SINGLE FAULT CONDITION:		---
	Continuous contact pressure below 50 N / cm ² with force below 150 N		N/A
	Temporary force below 250 N for an area at least of 3 cm ² for a maximum duration of 0.75N		N/A
7.3.5	Gap limitations between moving parts	No moving parts	N/A
7.3.5.1	Access normally allowed		—
	If levels of 7.3.4 exceeded and body part may be inserted minimum gap as specified in table 13 assured in NORMAL and in SINGLE FAULT CONDITION		N/A
7.3.5.2	Access normally prevented		—
	Maximum gap as specified in table 14 assured in NORMAL and in SINGLE FAULT CONDITION		N/A
7.4	Stability	Portable equipment	P

Clause	Requirements- Test	Remarks	Verdict
	Equipment not secured to building structure is physical stable	Complies	P
	Stability maintained after opening of drawers etc. by automatic means, or		N/A
	warning marking requires the application of means		N/A
	Compliance checked by following tests as applicable:	See Below	P
	a) 10° tilt test for other than handheld equipment	EUT don't fall over, after the tilt of 10° degree.	P
	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg		N/A
	c) downward force test for floor-standing equipment		N/A
	d) overload test with 4 times maximum load for castor or support that supports greatest load		N/A
	e) castor or support that supports greatest load removed from equipment		N/A
7.5	Provisions for lifting and carrying	The device is a portable one	N/A
7.5.1	Equipment more than 18 kg :	Mass of EUT : 481.4 Gms with adaptor	—
	Has means for lifting or carrying; or		N/A
	Directions in documentation		N/A
7.5.2	Handles and grips	No such parts	—
	Handles or grips withstand four times weight		N/A
7.5.3	Lifting devices and supporting parts	No such parts	—
	RATED for maximum load; or		N/A
	tested with four times maximum static load		N/A
7.6	Wall mounting	No such construction	N/A
	Mounting brackets withstand four times weight		N/A
7.7	Expelled parts	No such construction	N/A
	Equipment contains or limits the energy		N/A
	Protection not removable without the aid of a tool		N/A

Clause	Requirements- Test	Remarks	Verdict
8	RESISTANCE TO MECHANICAL STRESSES		P
8.1	Equipment does not cause a HAZARD when subjected to mechanical stresses in NORMAL USE	Complies	P
	Normal protection level is 5 J	Considered 5J	P
	Levels below 5 J but not less than 1 J are acceptable if all of following criteria are	Not for levels below 5J	—
	a) lower level justified by RISK assessment of manufacturer		N/A
	b) equipment installed in its intended application is not easily touched		N/A
	c) only occasional access during NORMAL USE		N/A
	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation		N/A
	for non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum RATED temperature		N/A
	impact energies between IK values, the IK code marked for nearest lower value		N/A
	Conformity is checked by performing following tests:		—
	1) static test of 8.2.1	Device withstood static test at 30N	P
	2) impact test of 8.2.2 with 5 J except for HAND- HELD EQUIPMENT	Complies	P
	if impact energy not selected to 5 J alternate method of IEC 62262 used	Not used	N/A
	3) drop test of 8.3.1 or 8.3.2 except for FIXED EQUIPMENT and equipment with mass over 100 kg		N/A
	Equipment RATED with an impact rating of IK 08 that obviously meets the criteria		N/A
	After the tests inspection with following results:		—
	- HAZARDOUS LIVE parts above the limits of 6.3.2 not ACCESSIBLE		N/A
	— insulation pass the voltage tests of 6.8		N/A

Clause	Requirements- Test	Remarks	Verdict
	i) no leaks of corrosive and harmful substances		N/A
	ii) ENCLOSURE shows no cracks resulting in a HAZARD		N/A
	iii) CLEARANCES not less than their permitted values		N/A
	iv) insulation of internal wiring remains undamaged		N/A
	v) PROTECTIVE BARRIERS not damaged or loosened	Complies	P
	vi) No moving parts exposed, except permitted by 7.3		N/A
	vii) no damage which could cause spread of fire	Complies	P
8.2	ENCLOSURE rigidity test	Complies	P
8.2.1	Static test	See Table 8.2	---
	— 30 N with 12 mm rod to each part of ENCLOSURE	Complies	P
	— in case of doubt test conducted at maximum RATED ambient temperature	No doubt	N/A
8.2.2	Impact test	Complies	P
	Impact applied to any part of ENCLOSURE causing a HAZARD if damaged		---
	Impact energy level and corresponding IK code	Complies IK 06	P
	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C	Complies	P
8.3	Drop test	See Below	P
8.3.1	Other than HAND-HELD and DIRECT-PLUG-IN EQUIPMENT		N/A
	Tests conducted with a drop height or angle		—
8.3.2	HAND-HELD and DIRECT-PLUG-IN EQUIPMENT	Portable Equipment	P
	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C	Complies	P

Clause	Requirements- Test	Remarks	Verdict
	Drop test conducted with an height of 1 m	No crack or deformation is not found after the test.	P
9	PROTECTION AGAINST THE SPREAD OF FIRE		N/A
9.1	No spread of fire in NORMAL and SINGLE FAULT CONDITION	IS 13252 (Part 1) Certified power adaptor & EUT is used.	N/A
	MAINS supplied equipment meets requirements of 9.6 additionally		N/A
	Conformity is checked by minimum one or a combination of the following (see Figure 11):		—
	a) SINGLE FAULT test of 4.4; or		N/A
	b) Application of 9.2 (eliminating or reducing the sources of ignition); or		N/A
	c) Application of 9.3 (containment of fire within the equipment)		N/A
9.2	Eliminating or reducing the sources of ignition within the equipment	See clause 9.1	N/A
	a) 1) Limited-energy circuit (see 9.4); or		N/A
	2) BASIC INSULATION provided for parts of different potential; or		N/A
	Bridging the insulation does not cause ignition		N/A
	b) Surface temperature of liquids and parts (see 9.5)		N/A
	c) No ignition in circuits designed to produce heat		N/A
9.3	Containment of the fire within the equipment, should it occur		N/A
9.3.1	Spread of fire outside equipment reduced to a tolerable level if:		—
	a) Energizing of the equipment is controlled by an OPERATOR held switch		N/A
	b) ENCLOSURE is conform with constructional requirements of 9.3.2; and		N/A
	Requirements of 9.5 are met		N/A
9.3.2	Constructional requirements	IS 13252 (Part 1) Certified power adaptor & EUT is used.	—

Clause	Requirements- Test	Remarks	Verdict
	a) Connectors and insulating material have flammability classification V-2 or better		N/A
	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)		N/A
	c) ENCLOSURE meets following requirements:		—
	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:		—
	i) no openings; or		N/A
	ii) perforated as specified in table 16; or		N/A
	iii) metal screen with a mesh; or		N/A
	iv) baffles as specified in Figure 12		N/A
	2) Material of ENCLOSURE and any baffle or flame barrier is made of:		—
	Metal (except magnesium); or		N/A
	Non-metallic materials have flammability classification V-1 or better		N/A
	3) ENCLOSURE and any baffle or flame barrier have adequate rigidity		N/A
9.4	Limited-energy circuit	IS 13252 (Part 1) Certified power adaptor & EUT is used.	N/A
	a) Potential not more than 30 r.m.s. and 42,4 V peak, or 60 V dc		N/A
	b) Current limited by one of following means:		—
	1) Inherently or by impedance (see table 17); or		N/A
	2) Overcurrent protective device (see table 18); or	Not used	N/A
	3) A regulating network limits also in SINGLE FAULT CONDITION (see table 17)	Not used	N/A
	c) Is separated by at least BASIC INSULATION	Not used	N/A
	Fuse or a nonadjustable electromechanical device is used	Not used	N/A
9.5	Requirements for equipment containing or using flammable liquids	No flammable liquids	N/A
	Flammable liquids contained in or specified for use with equipment do not cause spread of fire		N/A
	RISK is reduced to a tolerable level:		—

Clause	Requirements- Test	Remarks	Verdict
	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire		N/A
	b) The quantity of liquid is limited		N/A
	c) Flames are contained within the equipment		N/A
	Detailed instructions for Risk-reduction provided		N/A
9.6	Overcurrent protection		N/A
9.6.1	MAINS supplied equipment protected	IS 13252 (Part 1) Certified power adaptor.	N/A
	BASIC INSULATION between MAINS parts of opposite polarity provided		N/A
	Devices not in the protective conductor		N/A
	Fuses or single-pole circuit-breakers not fitted in neutral (multi-phase)		N/A
9.6.2	PERMANENTLY CONNECTED EQUIPMENT		N/A
	Overcurrent protection device:		—
	Fitted within the equipment; or		N/A
	Specified in manufacturers instructions		N/A
9.6.3	Other equipment		—
	Protection within the equipment		N/A
10	EQUIPMENT TEMPERATURE LIMITS AND RESISTANCE TO HEAT		P
10.1	Surface temperature limits for protection against burns	See Table 10	P
	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:		—
	— at an specified ambient temperature of 40 °C	Temperatures evaluated at 40°C ambient.	P
	— for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C		N/A
	Heated surfaces necessary for functional reasons exceeding specified values:	No such surfaces	—
	— Are recognizable as such by appearance or function; or		N/A
	— Are marked with symbol 13		N/A

Clause	Requirements- Test	Remarks	Verdict
	— Guards are not removable without tool		N/A
10.2	Temperatures of windings		N/A
	Limits not exceeded in:		—
	NORMAL CONDITION		N/A
10.3	Other temperature measurements	Complies	P
	Following measurements conducted if applicable:	See Table 10	—
	a) Value of 60 °C of field-wiring terminal box not exceeded	No such parts	N/A
	b) Surface of flammable liquids and parts in contact with this liquids	No such parts	N/A
	c) Surface of non-metallic ENCLOSURES	See Table 10	P
	d) Parts made of insulating material supporting parts connected to MAINS supply		N/A
	e) Terminals carrying a current more than 0.5A		N/A
10.4	Conduct of temperature tests	Complies	P
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	See Table 10	P
10.4.2	Temperature measurement of heating equipment	No such equipment	N/A
	Tests conducted in test corner		N/A
10.4.3	Equipment intended for installation in a cabinet or wall		N/A
	Equipment built in as specified in installation instructions		N/A
10.5	Resistance to heat	Complies	P
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES		N/A
10.5.2	Non-metallic ENCLOSURES	Device enclosure is placed in hot air oven @ 70°C for 7 hours (See Table10.5.2)	P
	Within 10 min after treatment:		—

Clause	Requirements- Test	Remarks	Verdict
	Equipment subjected to suitable stresses of 8.2 and 8.3 complying with criteria of 8.1	Complies	P
10.5.3	Insulating material	IS 13252 (Part 1) Certified power adaptor & EUT is used.	N/A
	a) Parts supporting parts connected to MAINS supply		N/A
	b) TERMINALS carrying a current more than 0.5 A		N/A
	Examination of material data; or		N/A
	in case of doubt:		N/A
	1) Ball pressure test; or		N/A
	2) Vicat softening test of ISO 306		N/A
11	PROTECTION AGAINST HAZARDS FROM FLUIDS		P
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Defined in the User Manual	P
	All fluids specified by manufacturer considered		N/A
11.2	Cleaning	Cleaning procedure is defined in the instruction manual.	P
11.3	Spillage		N/A
11.4	Overflow		N/A
11.5	Battery electrolyte		N/A
11.6	Specially protected equipment		N/A
11.7	Fluid pressure and leakage		N/A
12	PROTECTION AGAINST RADIATION, INCLUDING LASER SOURCES, AND AGAINST SONIC AND ULTRASONIC PRESSURE		N/A
12.1	Equipment provides protection	No such construction	N/A
12.2	Equipment producing ionizing radiation		N/A
12.2.1	Ionizing radiation		N/A
12.2.1.1	Equipment meets the following requirements:		N/A
	a) if intended to emit radiation meets requirements of 12.2.1.2; or		N/A
	tested, classified and marked in accordance to IEC 60405		N/A

Clause	Requirements- Test	Remarks	Verdict
	b) if only emits stray radiation meets requirements of 12.2.1.3		N/A
12.2.1.2	Equipment intended to emit radiation	No such construction	N/A
	Effective dose rate of radiation measured		N/A
	If dose rate exceeds 5 $\mu\text{Sv/h}$ marked with the following:		N/A
	a) Symbol 17 (ISO 361)		N/A
	b) Abbreviations of the radionuclides		N/A
	c) With maximum dose at 1 m; or		N/A
	with dose rate value between 1 $\mu\text{Sv/h}$ and 5 $\mu\text{Sv/h}$ in m		N/A
12.2.1.3	Equipment not intended to emit radiation	No such construction	N/A
	Limit for unintended stray radiation of 1 $\mu\text{Sv/h}$ at any easily reached point kept		N/A
12.2.2	Accelerated electrons		N/A
	Compartments opened only by the use of a TOOL		N/A
12.3	Ultraviolet (UV) radiation		N/A
	No unintentional HAZARDOUS escape of UV radiation:		N/A
	checked by inspection; and		N/A
	evaluation of RISK assessment documentation		N/A
12.4	Microwave radiation		N/A
	Power density does not exceed 10 W/m^2		N/A
	Sonic and ultrasonic pressure		N/A
	Sound level		N/A
	No HAZARDOUS sound emission		N/A
12.5	Sonic and ultrasonic pressure		N/A
12.5.1	Sound level		N/A
	No HAZARDOUS sound emission		N/A
	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1		N/A

Clause	Requirements- Test	Remarks	Verdict
	Instruction describes measures for protection		N/A
12.5.2	Ultrasonic pressure		N/A
	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz		N/A
	Equipment intended to emit ultrasound:		N/A
	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz		N/A
	If inside useful beam above values exceeded:		N/A
	Marked with Symbol 14 of Table 1		N/A
	and following information in the documentation:		N/A
	a) dimensions of useful beam		N/A
	b) area where ultrasonic pressure exceed 110 dB		N/A
	c) maximum sound pressure inside beam area		N/A
12.6	Laser sources		N/A
	Equipment meets requirements of IEC 60825-1		N/A
13	PROTECTION AGAINST LIBERATED GASES, EXPLOSION AND IMPLOSION		N/A
13.1	Poisonous and injurious and substances		N/A
13.2	Explosion and implosion		N/A
13.2.1	Components		N/A
13.2.2	Batteries and Battery Charging	Certified battery used	N/A
13.2.3	Implosion of cathode ray tubes		N/A
14	COMPONENTS AND SUBASSEMBLIES		P
14.1	Where safety is involved, components and subassemblies meet relevant requirements	Certified material used See Critical Component list Table 14.1	P
14.2	Motors	No motors	N/A
14.2.1	Motor temperatures		N/A
	Does not present a HAZARD when stopped or prevented from starting; or		N/A

Clause	Requirements- Test	Remarks	Verdict
	Protected by over-temperature or thermal protection device conform with 14.3	No such device	N/A
14.2.2	Series excitation motors	No such motors	N/A
	Connected direct to device, if over speeding causes a HAZARD		N/A
14.3	Over temperature protection devices	No such devices	N/A
	Devices operating in a SINGLE FAULT CONDITION		N/A
	a) Reliable function is ensured		N/A
	b) RATED to interrupt maximum current and voltage		N/A
	c) Does not operate in NORMAL USE		N/A
	If self-resetting device used to prevent a HAZARD, protected part requires intervention before restarting		N/A
14.4	Fuse holders	No such part	N/A
	No access to HAZARDOUS LIVE parts		N/A
14.5	MAINS voltage selecting devices	No such part	N/A
	Accidental change not possible		N/A
14.6	MAINS transformers tested outside equipment	No such part	N/A
14.7	Printed circuit boards		N/A
	Data shows conformity with V-1 of IEC 60695-11-10 or better; or		N/A
	Test shows conformity with V-1 of IEC 60695-11-10 or better		N/A
	Not applicable for printed wiring boards with limited-energy circuits (9.4)		N/A
14.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	No such part	N/A
	Test conducted between each pair of MAINS SUPPLY TERMINALS		N/A
	No HAZARD resulting from rupture or overheating of the component:		—
	— no bridging of safety relevant insulation		
	— no heat to other parts above the self-ignition points		N/A

Clause	Requirements- Test	Remarks	Verdict
15	PROTECTION BY INTERLOCKS		N/A
15.1	Interlocks are designed to remove a HAZARD before OPERATOR exposed	No interlocks	N/A
15.2	Prevention of reactivation		N/A
15.3	Reliability		N/A
	Single fault unlikely to occur; or		N/A
	Cannot cause a HAZARD		N/A
16	HAZARDS RESULTING FROM APPLICATION		N/A
16.1	REASONABLY FORESEEABLE MISUSE	All REASONABLY FORESEEABLE MISUSES were considered in Clauses 6 to 15	N/A
	No HAZARDS arising from settings not intended and not described in the instructions		N/A
	Other cases of REASONABLY FORESEEABLE MISUSE addressed by RISK assessment		N/A
16.2	Ergonomic aspects	No such Hazard	N/A
	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:		N/A
	a) limitation of body dimensions		N/A
	b) displays and indicators		N/A
	c) accessibility and conventions of controls		N/A
	d) arrangement of TERMINALS		N/A
17	RISK ASSESSMENT		P
	RISK assessment conducted, if HAZARD might arise and not covered by Clauses 6 to 16	All hazards deemed fully addressed by Clauses 6 to 16	P
	TOLERABLE RISK achieved by iterative documented process covering the following:		N/A
	a) RISK analysis		N/A
	identifies HAZARDS and estimates RISK		N/A
	b) RISK evaluation		N/A

Clause	Requirements- Test	Remarks	Verdict
	Plan to judge acceptability of resulting RISK level based on the estimated severity and likelihood of		N/A
	c) RISK reduction		N/A
	Initial RISK reduced by counter measures;		N/A
	Repeated RISK evaluation without new RISKS		N/A
	RISKS remaining after RISK assessment addressed in instructions to RESPONSIBLE BODY:		N/A
	Information contained how to mitigate these RISKS		N/A
	Following principles in methods of RISK reduction applied by manufacturer in given order:		N/A
	1) RISKS eliminated or reduced as far as possible		N/A
	2) Protective measures taken for RISKS that cannot be eliminated		N/A
	3) User information about residual RISK due to any defect of the protective measures		N/A
	Indication of particular training is required		N/A
	Specification of the need for personal protective equipment		N/A
	Conformity checked by evaluation of the RISK assessment documentation		N/A
Annex F	Routine Tests		N/A
	Manufacturer's declaration		N/A

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Table 4.4		Testing in SINGLE FAULT CONDITION —				Verdict
						P
Test Subclause	Fault No.	Fault description	Td 4.4.3 (NOTE)	How was test terminated Comments	Meets 4.4.4	
4.4.1	1	Testing in single fault Condition C	02:00	The EUT is operated with following specification: 5VDC ---700mA No hazards, no adverse effect observed.	P	
4.4.1	2	Testing in single fault Condition C	02:00	The EUT is operated with following specification: 5VDC ---3000mA No hazards, no adverse effect observed.	P	

NOTE Td = Test duration in hh:mm.

Supplementary information:

5.1.3c)	TABLE: MAINS supply					P
	Marked rating	:				N/A
	Frequency	:				N/A
	Phase.....	:				N/A
	Current	•		5 VDC, 2000mA		P
	Power.....	•		10W (5VDC, 2000mA)		P

Test No.	Voltage [V]	Frequency [Hz]	Current [A]	Power		Measured Power [W]	Comments
				[W]	[VA]		
1	5V	--	2	10	--	2.343	Complies

NOTE —

Supplementary information:

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Table 5.3		Durability of markings			P
Marking method (see NOTE)		Agent			
1) Adhesive label		A Water			
2) Ink printed		B Isopropyl alcohol 70%			
3) Laser marked		C (specify agent)			
4) Film-coated (plastic foil control panel)		D (specify agent)			
5) Imprinted on plastic (moulded in)		E (specify agent)			
NOTE — Where applicable include print method, label material, ink or paint type, fixing method, adhesive and surface to which marking is fixed.					
Marking location		Marking method (see above)			
Identification (5.1.2)		1			
MAINS supply (5.1.3)		1			
Terminals and operating devices (5.1.5.2)		1			
Warning marking (5.2)		1			
Method	Test agent	Remains legible	Label loose	Curled edges	Comments
		Verdict	Verdict	Verdict	
1	A, B	P	P	P	
5	A, B	P	P	P	
Supplementary information:					

Table: 6.2		List of accessible parts		P
6.1.2	Exceptions			—
6.2	Determination of ACCESSIBLE parts			—
Item	Description	Determination method (NOTE 5)	Exception under 6.1.2 (NOTE 4)	
1	Equipment Enclosure	J & R		
NOTE 1 — Test fingers and pins are to be applied without force unless a force is specified (see 6.2.2)				
NOTE 2 — Special consideration should be given to inadequate insulation and high voltage parts (see 6.2)				
NOTE 3 — Parts are considered to be ACCESSIBLE if they could be touched in the absence of any covering which is not considered to provide suitable insulation (see 6.4).				
NOTE 4 — Capacitor test may be required				
NOTE 5 — The determination methods are: V = visual; R = rigid test finger; J = jointed test finger; P3 = pin 3 mm diameter; P4 = pin 4 mm diameter.				
Supplementary information:				

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TABLE: 6		Protection against electric shock							N/A	
Pollution degree.....: 2			Installation category (overvoltage category) : II							
Location description	Insulation type	Maximum working voltage	CREEPAGE DISTANCE				CLEARANCE		Test voltage V	Comments
			PWB mm	CTI	mm	Other	Rq. mm	Mea. mm		
NOTE – Type of insulation: BI = BASIC INSULATION DI = DOUBLE INSULATION PI = PROTECTIVE IMPEDANCE RI = Reinforced INSULATION SI = Supplementary INSULATION			NOTE - Types of voltage Peak impulse test voltage (pulse) r.m.s. d.c. peak				NOTE - INSTALLATION CATEGORIES (OVERVOLTAGE CATEGORIES) or POLLUTION DEGREES which differ from these should be shown under "Comments".			

Supplementary information:

TABLE: 6.3.1		Values in NORMAL CONDITION										P		
6.1.1	Exceptions							11.2 Cleaning and decontamination				—		
6.3.1	Values in NORMAL CONDITION (see NOTE 1)							11.3 Spillage				—		
6.6.2	Terminals for external circuit							11.4 Overflow				—		
6.10.3	Plugs and connections											—		
Item	Voltage			Current				Capacitance		10 s test (NOTE 2)			Comme	
	V r.m.s	V peak	V d.c.	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	∞C	mJ	V	∞C	mJ		
Body of equipment	All the measured voltage are << 33 Vr.m.s., 46,7 V peak or 70 Vd.c. Touch current << 70 mA													
NOTE 1 – The requirements of 6.3.1 include drying out (if specified). For permanently connected equipment, the current values are 1,5 times the specified values. NOTE 2 – A 5 s test is specified in 6.10.3c).														
Supplementary information:														

TABLE: 6.3.2		Values in SINGLE FAULT									P	
Item	Subclause and fault No. See Table 4.4	Voltage			Transient (see NOTE)		Current			Capacitance ∞ F (NOTE)	Comments	
		V r.m.s.	V peak	V d.c.	V	s	Test circuit A1/A2/A3	mA r.m.s.	mA peak			mA d.c.
		During the single fault conditions all voltages are \ll 55 Vr.m.s., 78 V peak and 140 Vd.c.										
Supplementary information:												

TABLE: 6.5.2.2	Cross-sectional area of bonding conductors	N/A
Conductor Location	CROSS-SECTIONAL AREA [mm ²]	Verdict
Supplementary information:		

TABLE: 6.5.2.3	Tightening torque test			N/A
Conductor location	Size of screw	Tightening torque [Nm]	Verdict	
Supplementary information:				

TABLE: 6.5.2.4	Bonding impedance of plug connected equipment			N/A
ACCESSIBLE part under test	Test current [A]	Voltage attained after 1 min [V]	Calculated resistance (Maximum 0,1 or 0,2 SI) (0.1 Ω) [SI] (NOTE 1)	Verdict
NOTE 1 — For none-detachable power cord the impedance between protective conductor plug pin of MAINS cord and each ACCESSIBLE part shall not exceed 0,2 Ohm.				
Supplementary information:				

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TABLE: 6.5.2.5	Bonding impedance of permanently connected equipment			N/A
ACCESSIBLE part under test	Test current [A]	Voltage attained after 1 min (maximum 10 V) [V]		Verdict
Supplementary information:				

TABLE: 6.5.2.6	Transformer PROTECTIVE BONDING screen				N/A
ACCESSIBLE part under test	Test current (see NOTE) [A]	Voltage attained after 1 min (maximum 10 V) [V]	Calculated resistance (maximum 0,1 SI) [n]		Verdict
NOTE — Test current must be twice the value of the overcurrent protection means of the winding. Test is specified in 6.5.2.6 a) or b).					
Supplementary information:					

TABLE: 6.5.4	Protective impedance						N/A	
A single component								
Component	Location	Measured		Calculated	Rated		Verdict	Comments
		Working voltage [V]	Current [A]	Power dissipation [W]	Working voltage [V]	Power dissipation [W]		
A combination of components								
Component			Location			Comments		
NOTE — A PROTECTIVE IMPEDANCE shall not be a single electronic device that employs electron conduction in a vacuum, gas or semiconductor.								
Supplementary information:								

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TABLE: 6.5.6		Current- or voltage-limiting device				N/A	
Component	Location	Measured		Rated		Verdict	Comments
		Working voltage [V]	Current [A]	Working voltage [V]	Current [A]		

Supplementary information:

TABLE: 6.7		Insulation requirements- Clearance & Creepage				N/A
Pollution degree: 2			Overvoltage category		OVC II	
S.No	Location	Insulation type	WORKING VOLTAGE		Test voltage	Comments (NOTE 3)
		(NOTE 1)	RMS [V]	Peak [V]	(NOTE 2) [V]	

NOTE 1 — Type of insulation:
 BI = BASIC INSULATION
 DI = DOUBLE INSULATION
 PI = PROTECTIVE IMPEDANCE
 RI = Reinforced INSULATION
 SI = Supplementary INSULATION

NOTE 2 - Types of voltage
 Peak impulse test voltage (pulse)
 r.m.s.
 d.c.
 peak

NOTE 3 - OVERVOLTAGE CATEGORIES or POLLUTION DEGREES which differ should be shown under "Comments"

Supplementary Information: Additional information derived from Annex K.

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TABLE: 6.7		Insulation requirements- Clearances and Creepage							N/A		
6.2.2	Examination	6.5.4	Protective impedance					—			
6.4.2	ENCLOSURES and protective barriers	6.5.6	Current- or voltage-limiting device					—			
6.4.4	Impedance	9.6.1	BASIC INSULATION between opposite polarity					—			
S.No.	Location	Insulation type (NOTE 1)	WORKING VOLTAGE (NOTE 2)		Clearance		Creepage		CTI	Verdict	Comments
			RMS [V]	Peak [V]	Required [mm]	Measured [mm]	Required [mm]	Measured [mm]			
1											
2											
3											
4											
5											

NOTE 1 — Type of insulation:
 BI = BASIC INSULATION
 DI = DOUBLE INSULATION
 PI = PROTECTIVE IMPEDANCE
 RI = Reinforced INSULATION
 SI = Supplementary INSULATION

NOTE 2 - to be used for definition of required insulation

Supplementary information:

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TABLE: 6.7			Insulation requirements- Clearances and Creepage distances								P	
6.4.2	ENCLOSURES or PROTECTIVE BARRIERS				9.6.1	Over current protection basic insulation between MAINS parts				—		
8	Mechanical resistance to shock and impact				10.5.1	Integrity of CLEARANCES and CREEPAGE distances				—		
Area	Location	Insulation Type	Mechanical tests (NOTE)					Test at Max.	Measured after test (if required)		Verdict	Comments
			Applied force	Rigidity (8.2)		Drop (8.3)		RATED ambient	Clearance	Creepage		
				N	Static (8.2.1)	Impact (8.2.2)	Normal (8.3.2)					
A	Enclosure	--	30	Intact	Intact	Intact	Intact	--	--	--	P	No change observed
Supplementary information:												

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TABLE: 6.7.2.2.2	Reliability of potted components	N/A
14.1 b)	Components and subassemblies	
Temperature Cycling Test		
Manufacturer		
Type		
Construction		
Potting compound.....		
CREEPAGE distances measured.....		
CLEARANCES measured.....		
Thickness through insulation.....		
Adhesive test Pass/Fail.....		
Test temperature T °C		
Cycles at U= AC 500 V		Leakage current (500 V) mA
Number of cycles	Date	68 h / 125 °C
		1 h / 25 °C
		2 h / 0 °C
		1 h / 25 °C
1. Cycle from	to	
2. Cycle from	to	
3. Cycle from	to	
After Cycling Test :		
Humidity conditioning	48 h	
Requirements for dielectric strength (s. insulation diagram)	Test voltage V r.m.s	Verdict
Basic insulation _____ V r.m.s.		
Supplementary insulation _____ V r.m.s.		
Reinforced insulation _____ V r.m.s.		
NOTE - to be used for evaluation of components containing insulation through solid insulation, when the component standard require thermal cycling test. Ref Clause 14.1 and Figure 15, option b)		
Supplementary information:		

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Table 6.8	Dielectric strength tests					N/A
4.4.4.1 b)	Conformity after application of SINGLE FAULT CONDITIONS					N/A
6.4	Primary means of protection					N/A
6.6	Connections to external circuits					N/A
6.7.	Insulation requirements (see Annex K)					N/A
6.10.2	Fitting of non-detachable MAINS supply cords					N/A
9.2 a) 2)	Eliminating or reducing the sources of ignition within the equipment					N/A
9.4 c)	Limited-energy circuit					N/A
9.6.1	Overcurrent protection basic insulation between MAINS - parts					N/A
	Test site altitude				< 2000m	—
	Test voltage correction factor (see table 10)..... •				1	—
Location or references from	Clause or sub-clause	Humidity Yes/No	Working voltage V	Test voltage r.m.s./peak / d.c.	Comments (NOTE)	Verdict
Record the fault, test or treatment applied before the dielectric strength test. Humidity preconditioning required.						
Supplementary information:						

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6.10.2	TABLE: Cord anchorage						N/A
Location	Mass [kg]	Pull [N]	Verdict	Torque [Nm]	Verdict	Comment	
Dielectric strength test for 1 min. (6.8.3.1)						V r.m.s.	
Supplementary information:							

TABLE: 8	Mechanical resistance to shock and impact										P	
11	Protection against HAZARDS from fluids										N/A	
Voltage tests can be carried out once after performing the tests of clause 8 and clause 11. However, if voltage tests are carried out separately after each set of tests, two table can be used.												
Location	Clause 8 tests				Clause 11 tests				Working voltage [V]	Test voltage [V]	Verdict	Comments
	Static (8.2.1) 30 N	Impact (8.2.2)	Normal (8.3.2)	Handheld Plug-in	Cleaning (11.2)	Spillage (11.3)	Over flow (11.4)	IEC 60529 (11.6)				
Enclosure	C	C IK 06	C	N/A	N/A	C	N/A	N/A	--	--	P	No hazard Observed
NOTE — Use r.m.s., d.c. or peak to indicate the used test voltage.												
Supplementary information: C- conducted												

Table: 8.2	ENCLOSURE rigidity test			P
8.2.1	Static test			P
	Material of enclosure	• Non-metallic (Plastic)		—
	Preparation for the test:	Non operative treatment		—
	Operated at ambient temperature.....	• 40 ° C	3 hr	P
Location		Comments		Verdict
Enclosure all faces		30 N forces is applied with 12mm dia rod. No crack or physical damage observed		P
Supplementary information:				

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Table: 8.2.2	Impact test		P
	Material of enclosure	Non-metallic	—
	Corresponding IK-code	IK 06	P
	Preparation for the test:	Non-operative treatment	—
	Cooled to (temperature)	25 ° C	—
	Location	Comments	Verdict
	1) Top	No cracks or damage observed	P
	2) Side left / right	No cracks or damage observed	P
	3) Bottom	No cracks or damage observed	P
Supplementary information:			

Table 8.3	Drop test			N/A
8.3.1	Other equipment:			N/A
	Location	Raised up to	Comments	—
		[mm] °		—
Supplementary information:				

Table: 8.3.2	Hand-held EQUIPMENT and direct plug-in equipment		N/A
	Material of enclosure..... •		—
	Preparation for the test:		—
	Cooled to (temperature)..... •		—
	Location	Comments	Verdict
Supplementary information:			

TABLE : 9	Protection against the spread of fire			N/A
Item	Source of HAZARD or area of the equipment considered (circuit, component, liquid etc.)	Protection Method (9.1 a, b or c)	Protection details	Verdict
Supplementary information:				

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Table: 9.3.2	Constructional requirements		N/A					
14.7	Printed circuit boards							
Material tested..... •			—					
Generic name •			—					
Material manufacturer •			—					
Type..... •			—					
Colour •			—					
Conditioning details..... •			—					
			Sample					
			1	2	3	4	5	6
Thickness of specimen	mm							
Duration of flaming after first Application	s							
Duration of flaming plus glowing After second application	s							
Specimen burns to holding clamp	Yes/No							
Cotton ignited	Yes/No							
Sample result	Pass/Fail							
Supplementary information:								

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Table: 9.4	Limited-energy circuit					N/A
Location	9.4 a)	9.4 b) Current limitation (NOTE)		9.4 c)	Decision	Comments
	Maximum potential in circuit voltage r.m.s./d.c. [V]	Maximum available current [A]	Overload protection after 120 s [A]	Circuit separation	Yes/No	
NOTE — Maximum values see Tables 17 and 18 of IEC 61010-1						
Supplementary information:						

Table: 9.5	Requirements for equipment containing or using flammable liquids		N/A
Type of liquid	9.5 Flammable liquids		Verdict
	b) Quantity	c) Containment	
Supplementary information:			

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TABLE : 10	Temperature Measurements				P
10.1	Surface temperature limits — NORMAL CONDITION				P
10.2	Temperature of windings — NORMAL CONDITION and / or SINGLE FAULT CONDITION				N/A
10.3	Other temperature measurements				N/A
Operating conditions:	Normal Load Condition (Charging Mode)				
Test room ambient temperature (ta)....:					25 °C
Voltage.....•	100 V	Test duration.....:			3 hrs
Part / Location	t_m [°C]	t_R [°C]	t_c [°C]	Limit t_{max}	Comments
Input Supply wire	28.6	3.6	43.6	--	Pass
Display of EUT	29.6	4.6	44.6	--	Pass
Enclosure	27.5	2.5	42.5	70	Pass
Near charging Port	30.5	5.5	45.5	--	Pass
NOTE 1 - t_m = max measured temperature t_R = temp rise measured t_c = t_m corrected { $((t_m - t_R) + 40)$ °C or max. RATED ambient }. t_{max} = maximum permitted temperature NOTE 2 - see also 14.1 with reference to component operating conditions NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary					
Supplementary information:					

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TABLE : 10	Temperature Measurements					P
10.1	Surface temperature limits — NORMAL CONDITION					P
10.2	Temperature of windings — NORMAL CONDITION and / or SINGLE FAULT CONDITION					N/A
10.3	Other temperature measurements					N/A
Operating conditions:	Normal Load Condition (Charging Mode)					
Test room ambient temperature (ta)....:					26 °C	
Voltage.....•	240 V		Test duration.....:	3 hrs		
Part / Location	t_m [°C]	t_R [°C]	t_c [°C]	Limit t_{max}	Comments	
Input Supply wire	28.9	3.9	43.9	--	Pass	
Display of EUT	30.6	4.6	44.6	65	Pass	
Enclosure	28.6	2.6	42.6	70	Pass	
Near charging Port	30.9	4.9	44.9	--	Pass	
NOTE 1 - t_m = max measured temperature t_R = temp rise measured $t_c = t_m$ corrected $\{((t_m - t_R) + 40)^\circ\text{C}$ or max. RATED ambient) $\}$. t_{max} = maximum permitted temperature NOTE 2 - see also 14.1 with reference to component operating conditions NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary						
Supplementary information:						

TABLE : 10	Temperature Measurements					P
10.1	Surface temperature limits — NORMAL					P
10.2	Temperature of windings — NORMAL CONDITION and / or SINGLE FAULT CONDITION					N/A
10.3	Other temperature measurements					N/A
Operating conditions:	Normal Load Condition (Discharging Mode)					
Test room ambient temperature (ta)....:					25 °C	
Voltage.....•	Internal Battery		Test duration.....:	4 hrs		
Part / Location	t_m [°C]	t_R [°C]	t_c [°C]	Limit t_{max}	Comments	
Display of EUT	30.6	4.6	44.6	65	Pass	
Enclosure	28.6	2.6	42.6	70	Pass	
NOTE 1 - t_m = max measured temperature t_R = temp rise measured $t_c = t_m$ corrected $\{((t_m - t_R) + 40)^\circ\text{C}$ or max. RATED ambient) $\}$. t_{max} = maximum permitted temperature NOTE 2 - see also 14.1 with reference to component operating conditions NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary						
Supplementary information:						

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TABLE : 10.	Temperature Measurements (Fault Condition)						P
10.1	Surface temperature limits — NORMAL CONDITION and / or SINGLE FAULT CONDITION						P
10.2	Temperature of windings — NORMAL CONDITION and / or SINGLE FAULT CONDITION						N/A
10.3	Other temperature measurements						N/A
Operating conditions:		SINGLE FAULT CONDITION (Charging Mode)					
Test room ambient temperature (ta)...					25 °C		
Voltage..... •	I/P: 240V O/P: 5V==3A	Test duration.....			1Hr		
Part / Location	t_m [° C]	t_R [° C]	t_c [° C]	limit	Fault	Comments	Verdict
Input Supply wire	32.5	7.5	47.5	--	Supplied by different rating adaptor	No hazard occur	P
Display of EUT	31.5	6.5	40.5	--	Supplied by different rating adaptor	No hazard occur	P
Enclosure	30.4	5.4	45.4	--	Supplied by different rating adaptor	No hazard occur	P
Near charging Port	33.6	8.6	48.6	--	Supplied by different rating adaptor	No hazard occur	P
NOTE 1 - t_m = max measured temperature t_R = temp rise measured $t_c = t_m$ corrected $\{ ((t_m - t_R) + 40) ^\circ\text{C}$ or max. RATED ambient $\}$. t_{max} = maximum permitted temperature NOTE 2 - see also 14.1 with reference to component operating conditions NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary							
Supplementary information:							

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TABLE: 10.2	Temperature of windings Resistance method Temperature Measurements						N/A	
4.4.2.7	MAINS transformers						—	
14.2.1	Motor temperatures						—	
Operating conditions..:								
Frequency	Hz	Test room ambient temperature (ta1/ta2)..:				°C (initial / final)		
Voltage	V	Test duration			h	min		
Part / Designation	Rcold InI	Rwar mInI	Current [A]	tr IN	t, [°C]	tmax [°C]	Verdict	Comments
NOTE 1- Rcold = initial resistance $R_{wa.}$ = final resistance t_r = temperature rise $t_c = t_r$ corrected ($t_c = t_r - \{t_o - t_{a,i}\} + [40\text{ °C or max RATED ambient}]$) t_r = maximum permitted temperature NOTE 2 - Indicate insulation class (IEC 60085) under comments (optional) NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary								
Supplementary information:								

TABLE: 10.5.2	Resistance to heat of non-metallic ENCLOSURES			P
Test method used:				—
Non-operative treatment		:	Non-operative	-
Empty ENCLOSURE		:	Empty Enclosure tested	-
Operative treatment		:	Non-operative	-
Temperature during tests.....		:	70 °C for 7 hours	P
Description	Material	Comments		Verdict
Enclosure	Plastic	Placed in Hot air oven in for 7 hours @ 70 °C. No damage or cracks/ deformation observed on enclosure.		P
Enclosure	Plastic	Test as per Cl 8.2 & 8.3 are performed accordingly. No deformation observed		P
Dielectric strength test (6.8)		:	V r.m.s./peak/d.c.	
NOTE — Within 10 minutes of the end of treatment suitable tests in acc. to 8.2 and 8.3 must be conducted and pass criteria of 8.1.				
Supplementary information:				

QVC Certification Services Pvt. Ltd.

Corporate & Head Office:

2-B, Civil Lines, Yukti Business Centre, Near Old Session Court, Ambala City -134003, Haryana, INDIA
 Tel: +91-171- 2441127, 2441126, E-mail: cemark@qvcert.com, Website: www.qvcert.com

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TABLE: 10.5.3	Insulating Materials			N/A
10.5.3 1)	Ball-pressure test			-
	Max. allowed impression diameter	:	2 mm	—
	Part	Test temperature [°C]	Impression diameter [mm]	Verdict
Supplementary information:				
10.5.3 2)	Vicat softening test (ISO 306)			N/A
	Part	Vicat softening temperature [°C]	Thickness of sample [mm]	Verdict
Supplementary information:				

TABLE: 11	Protection against HAZARDS from fluids								N/A				
Voltage tests can be carried out once after performing the tests of clause 8 and clause 11. However, if voltage tests are carried out separately after each set of tests, two table can be used.													
	Clause 8 tests				Clause 11 tests								
Location	Static (8.2.1) 30 N	Impact (8.2.2)	Normal (8.3.1)	Handheld Plug-in	Cleaning (11.2)	Spillage (11.3)	Over flow (11.4)	IEC 60529 (11.6)	Working voltage [V]	Test voltage [V]	Verdict	Comments	
	---	---	---	---	N/A	N/A	N/A	N/A	--	--	--	---	
NOTE — Use r.m.s., d.c. or peak to indicate the used test voltage.													
Supplementary information:													

TABLE: 14.3	Over temperature protection devices			N/A
Reliability test				
Component	Type (NOTE)	Verdict	Comments	
NOTE: NSR = non-self-resetting (10 times) NR = non-resetting (1 time) SR = self-resetting (200 times)				
Supplementary information:				

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TABLE: 4.4.2.7		MAINS transformer		N/A
4.4.2.7.2				--
14.6				—
Type				—
Manufacturer				—
Test in equipment				—
Test on bench				—
Test repeated inside equipment (see 14.6)				—
Optional — Insulation class (IEC 60085) of the lowest rated winding				—
Winding identification				
Type of Protector for winding (NOTE 1)				
Elapsed time				
Current, A				
Winding temperature, °C (TC) (see NOTE 2)				
Tissue paper / cheesecloth OK ? (Pass / Fail)				
Voltage tests (see NOTE 3)				
Primary to secondary	3000Vac			
Primary to core	----			
Secondary to secondary	1500Vac			
Secondary to core	----	-----		
Verdict				
NOTE 1:	Primary fuse	- PF / ()	A	
	Secondary fuse	- SF / ()	A	
	Overtemperature protection	- OP / ()	°C	
NOTE 2:	Impedance protection	- Z		
	Indicate method of measurement	- TC = with thermocouple		
		- R = resistance method		
NOTE 3:	If resistance method is used, record resistance in cold and warm condition			
	Record the voltage applied and the type of voltage (r.m.s. / d.c. / peak) and for results use NB = no breakdown or B = breakdown			
Supplementary information:				

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TABLE: 4.4.2.7	MAINS transformer		N/A
4.4.2.7.3			---
14.6			—
Type..... •			—
Manufacturer •			—
Test in equipment			—
Test on bench			—
Test repeated inside equipment (see 14.6)			—
Optional — Insulation class (IEC 60085) of the lowest rated winding			—
Winding identification			
Type of Protector for winding (NOTE 1)			
Elapsed time			
Current, A			
Winding temperature, °C (TC) (see NOTE 2)			
Tissue paper / cheesecloth OK ? (Pass / Fail)			
Voltage tests (see NOTE 3)			
Primary to secondary	3000Vac		
Primary to core	----		
Secondary to secondary	1500Vac		
Secondary to core	----		
Verdict			
NOTE 1:	Primary fuse	- PF / ()	A
	Secondary fuse	- SF / ()	A
	Overtemperature protection	- OP / ()	°C
	Impedance protection	- Z	
NOTE 2:	Indicate method of measurement	TC = with thermocouple	
		R = resistance method	
	If resistance method is used, record resistance in cold and warm condition in FormA.26B.		
NOTE 3:	Record the voltage applied and the type of voltage (r.m.s. / d.c. / peak) and for results use NB = no breakdown or B = breakdown		
Supplementary information:			

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TABLE: 11.7.2	TABLE: Leakage and rupture at high pressure					N/A
Part	Maximum permissible working pressure Mpa	Test pressure MPa	Leakage Yes / No	Deformation Yes / No	Burst Yes / No	Comments

Supplementary information:

TABLE: 11.7.3	Leakage from low-pressure parts		N/A
Part	Test pressure Mpa	Leakage Yes / No	Comments

Supplementary information:

TABLE: 12.2.1	TABLE: Ionizing radiation			N/A
12.2.1.2	Equipment intended to emit radiation			N/A
Locations tested	Measured values pSv/h	Verdict	Comments	

Supplementary information:

TABLE: 12.2.1.3	Equipment not intended to emit radiation			N/A
	Max. allowed effective dose rate at 100 mm..... • 1 pSv/h			—
Locations tested	Measured values pSv/h	Verdict	Comments	

Supplementary information:

TABLE: 12.5.1	Sound level		N/A
Locations tested	Measured values dBA	Calculated maximum sound pressure level	
At operator's normal position and at bystanders' positions			

Supplementary information:

TABLE: 12.5.2	Ultrasonic pressure			N/A
Locations tested	Measured values		Comments	
	dB	kHz		
At operator's normal position				
At 1 m from the ENCLOSURE				
NOTE — No limit is specified at present, but a limit of 110 dB above the reference pressure value of 20 µPa is under consideration for applicable frequencies between 20 kHz and 100 kHz.				
Supplementary information:				

TABLE: 14.8	Transient overvoltage limiting devices									N/A
Component / Designation	Overvoltage Category	MAINS voltage [V rms]	Test voltage [V]	t_m [°C]	t_c [°C]	t_{max} [°C]	Rupture Yes / No	Circuit breaker tripped	Verdict	Comments
Test room ambient temperature: °C										
NOTE - t_m = measured temperature $t_c = t_m$ corrected ($t_m - t_a + 40$ °C or max. RATED ambient) t_{max} = maximum permitted temperature Conformity is checked by applying 5 positive and 5 negative impulses with the applicable impulse withstand voltage, spaced up to 1 min apart, from a hybrid impulse generator (see IEC 61180-1).										
Supplementary information:										

14.1	TABLE: List of critical components					P
Component/ Part No.	Manufacturer/ Trademark	Type No./ model No	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity ¹	
Power adaptor	Panasonic	PA5V20ABSUO	I/P: 100-240V, 50/60Hz, 0.5A O/P: 5VDC, 2000mA	IS 13252 (Part 1) /IEC 60950-1	BIS Certified R- 93008150	
Mobile Phone	Panasonic	Eluga I6	I/P: Rated Power adaptor 5VDC, 2000mA Internal Battery: 3000mAh	IS 13252 (Part 1) /IEC 60950-1	BIS Certified R-85001201	
Supply cord	Panasonic	----	USB to Micro USB	----	----	
Plastic enclosure	Styrolution	Absolac 920	Acrylonite Butadiene Styrene	ASTM D 1525 ISO 1133	----	

*** END OF SECTION -1***

Test Report

Section-2

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Applicant Name &	Arogyam Medisoft Solution Pvt. Ltd.		
Address:-	Room no-21, Unit- 806, Work Nests, Tower- 2 Godrej Waterside, DP-5, Sec- V, Salt Lake, Kolkata -700091.		
Test Item:-	HaemurEx, Clinical Chemistry Analyzer		
Identification:-	HEX0031		
Discipline:-	Electronics	Group:-	Laboratory (IVD)
Job order no:-	QVC/SAMPLE/135	Date of receipt:-	07/06/2022
Serial no:-	Batch No: 8c:c5:e1:38:9c:69		
Testing laboratory & Its address:	QVC Certification Services Pvt. Ltd. 2-B, Civil Lines, Yukti business centre, Near Old session court, Ambala City-134003, Haryana, India.		
Test specification:	EN 61010-2-101: 2002 Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment		
Test Result:	The test item passed the test specification.		
<i>Note:-This test report relates to the submitted test sample and list of documents attached. Without permission of the testing laboratory this test report is not permitted to be duplicated in extract.</i>			


Tested by:	Reviewed by:	Approved by / Authorized Signatory:	Issued by:
			
Manipal (Testing Engineer)	Amandeep Singh (Technical Manager)	Amandeep Singh (Technical Manager)	Ankit Kaushal (Deputy Quality Manager)
Date: 16/07/2022	Date: 16/07/2022	Date: 16/07/2022	Date: 16/07/2022

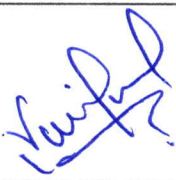
QVC Certification Services Pvt. Ltd.

Corporate & Head Office:

 2-B, Civil Lines, Yukti Business Centre, Near Old Session Court, Ambala City -134003, Haryana, INDIA
 Tel: +91-171- 2441127, 2441126, E-mail: cemark@qvcert.com, Website: www.qvcert.com

Test Report No: QVC/TEST/22/07/08	EN 61010-2-101: 2002	Page 2 of 12
		Issue Date: 16/07/2022

Test Report EN 61010-2-101: 2002 Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	
Report Reference No.:	QVC/TEST/22/07/08
Date of issue:	16/07/2022
Total number of pages :	12
Testing Location:	<input type="checkbox"/> Onsite <input checked="" type="checkbox"/> At Lab
Testing Laboratory :	QVC Certification Services Pvt. Ltd. 2-B, Civil Lines, Yukti business centre, Near Old session court, Ambala City-134003, Haryana, India.
Testing Laboratory Address:	
Manufacturer's Name :	Arogyam Medisoft Solution Pvt. Ltd.
Manufacturer's Address	Room no-21, Unit- 806, Work Nests, Tower- 2 Godrej Waterside, DP-5, Sec- V, Salt Lake, Kolkata -700091.
Standard:	EN 61010-2-101: 2002
Test procedure:	Compliance Report
Non-standard test method:	N/A
Test item description:	HaemurEx- Blood and Urine Analyzer
Trade Mark:	 AROGYAM MEDISOFT SOLUTION
Model/Type reference:	HaemurEx Rated Input: 5V ---2000mA
Rating:	Internal Battery (Li-Polymer) Capacity: 3000mAh

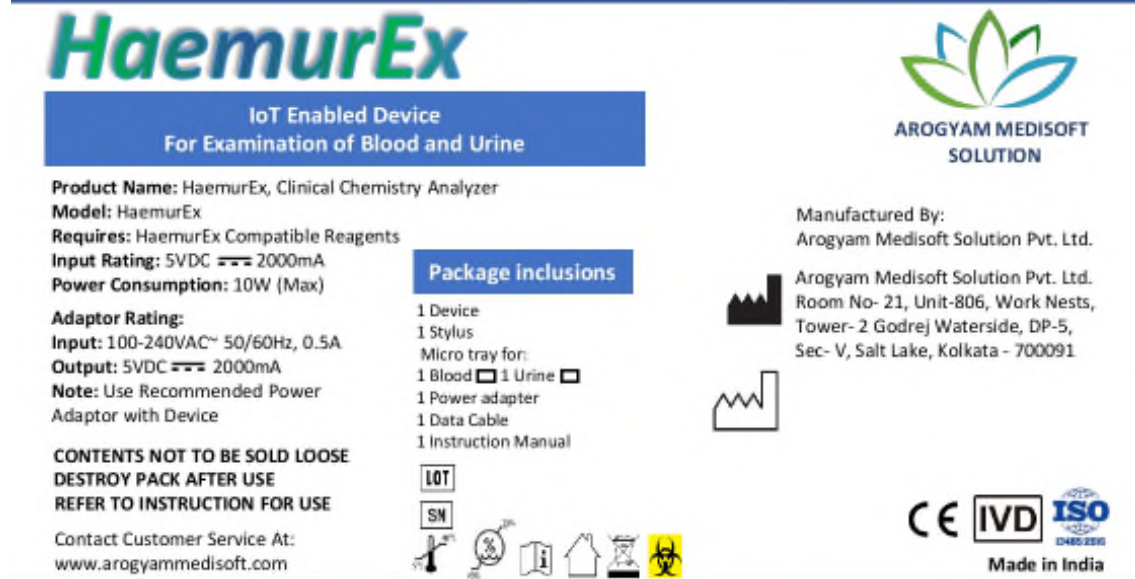
Tested by:	Reviewed by:	Approved by / Authorized Signatory:	Issued by:
			
Manipal (Testing Engineer) Date: 16/07/2022	Amandeep Singh (Technical Manager) Date: 16/07/2022	Amandeep Singh (Technical Manager) Date: 16/07/2022	Ankit Kaushal (Deputy Quality Manager) Date: 16/07/2022

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Copy of Marking Plate/ Label:-



HaemurEx
IoT Enabled Device
For Examination of Blood and Urine

Product Name: HaemurEx, Clinical Chemistry Analyzer
Model: HaemurEx
Requires: HaemurEx Compatible Reagents
Input Rating: 5VDC 2000mA
Power Consumption: 10W (Max)

Adaptor Rating:
Input: 100-240VAC~ 50/60Hz, 0.5A
Output: 5VDC 2000mA
Note: Use Recommended Power Adaptor with Device

Package Inclusions

- 1 Device
- 1 Stylus
- Micro tray for:
 - 1 Blood 1 Urine
- 1 Power adapter
- 1 Data Cable
- 1 Instruction Manual

Manufactured By:
Arogyam Medisoft Solution Pvt. Ltd.
Arogyam Medisoft Solution Pvt. Ltd.
Room No- 21, Unit-806, Work Nests,
Tower- 2 Godrej Waterside, DP-5,
Sec- V, Salt Lake, Kolkata - 700091

**CONTENTS NOT TO BE SOLD LOOSE
DESTROY PACK AFTER USE
REFER TO INSTRUCTION FOR USE**

Contact Customer Service At:
www.arogyammedisoft.com

CE IVD ISO
Made in India

Marking Label of Equipment Under Test (EUT)



Marking Label of Power Adaptor for Input Supply of EUT

Test Report No: QVC/TEST/22/07/08	EN 61010-2-101: 2002	Page 4 of 12
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Test Item particulars:-	HaemurEx, Clinical Chemistry Analyzer	
Classification of installation and use:	Laboratory (IVD) (Uses as per manufacturer instructions)	
Sample Received Condition	Good	
Operating Conditions	Continuous	
Special protection to IEC 60529	IPXX	
Pollution degree	2	
Mass of the Equipment	556.5 Gms (with Adaptor) 481.4 Gms (Without Adaptor)	
Dimension of the Equipment	L: 91.00mm X W: 108.01mm X H: 157.55mm	
Table – List of Attachments		
Attachments	Attachment description	No of pages in attachment
1	Photograph of test sample	02 (Page No. 80-81)
General remarks: The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Possible test case verdicts:		
- test case does not apply to the test object :	N/A	
-test is not evaluate to the test object:	N/E	
- test object does meet the requirement :	P (Pass)	
- test object does not meet the requirement :	F (Fail)	
Testing:	See Below	
Date of receipt of test item :	07/06/2022	
Date(s) of performance of tests :	08/06/2022 to 12/07/2022	
Laboratory conditions:	See Below	
Ambient Temperature:	(15 to 35) °C	
Ambient Humidity:	(45 to 75) % Rh	
General Product Information:- This product tested is a Blood & Urine Analyzer used for clinical purposes. The product is powered by certified AC/DC Adaptor. Technical Specifications: Rated input supply of power adaptor:- 100-240VAC, 50/60Hz, 0.5A Rated output of power adaptor: 5VDC $\overline{\text{---}}$ 2000mA. Rated Input of equipment: 5VDC $\overline{\text{---}}$ 2000mA. Internal Battery (Li-Polymer) Capacity: 3000mAh		
Additional Information: N/A		

Test Report No: QVC/TEST/22/07/08	EN 61010-2-101: 2002	Page 5 of 12
		Issue Date: 16/07/2022

LIST OF INSTRUMENTS USED IN TESTING

S.No.	Instrument Name	Instrument Id	Range
1	Electrical Safety Analyzer	QVC/TEST/ESA-01	AC Voltage: 0V to 4.99 kV Power: 0W to 19.99W Touch leakage current: 0mA to 19.99mA
2	Digital Vernier Caliper	QVC/TEST/DVC-01	Range: 0-200mm
3	Digital Multimeter	QVC/TEST/DMM-01	Voltage: 3V to 1000V Current: 3mA Resistance: 300Ω to 3MΩ
4	Climatic Chamber	QVC/TEST/CTC-01	Temperature: -70°C to 180°C Humidity: 10% to 98% RH
5	Hot Air Oven	QVC/TEST/HAO-01	upto 250°C
6	Digital Push and Pull Force Gauge	QVC/TEST/DPPG-01	Range: 0-2000N
7	Digital Hygrometer	QVC/TEST/TH-01	Temperature : -50 ~ 70°C Humidity: 10% to 99% RH
8	Digital Stopwatch	QVC/TEST/ST-01	Range: 0-23 Hour 59 Minutes 59 Second
9	Weighing Balance	QVC/TEST/DWB-01	Range: 0 to 10 Kg
10	Digital Storage Oscilloscope	QVC/TEST/DSO-01	Bandwidth: 100 MHz Sample rate: 2.0 GS/s DC gain accuracy: ±3%, from 10 mV/div to 5 V/div
11	Multi Test Panel	QVC/TEST/MTP-01	---
i	Digital Volt Meter- Multi Test Panel	QVC/TEST/DVM-01	0-300 Volt
ii	Digital Amp. Meter- Multi Test Panel	QVC/TEST/DAM-01	0-20 Amp.
iii	Digital Frequency Meter - Multi Test Panel	QVC/TEST/MT/DFM-01	45-99.99 Hz
iv	Digital Volt Meter for PAES test - Multi Test Panel	QVC/TEST/PAES/DVM-01	0-60 Volt
12	Torque screwdriver	QVC/TEST/TS-01	Range: 1Nm to 5Nm Accuracy: ±3%
13	Jointed Test Finger IP 2X	QVC/TEST/JTF-01	Finger length: 180mm A per Fig. 2 of IEC 61032
14	Data Logger (16 CH.) with Sensor	QVC/TEST/DTS01	Range: -200 °C to 400 °C
15	Pendulum impact tester weight	QVC/TEST/PITW01	Ball Dia.: 50mm Weight of ball: 500gms
16	Test Probe 11	QVC/TEST/Probe -11	Length: 80mmDia: 12mm Fingertip: 20mm As per Fig. 7 of IEC 61032

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Clause	Requirement-Test	Observation	Verdict
5	Marking & Documentation		P
5.1.1	General	See Below	P
	Additional symbols cannot be confused with the international ones	Complies  1- Biological Hazard Symbol  2- Lot symbol	P
5.1.2	Identification	Complies	P
	Equipment is identified by:		—
	a) Manufacturer's name or trademark and address	See copy of marking plate.	P
	National regulation may require more details on the address		—
	b) Model number, name or other means	HaemurEx	P
	The equipment or packaging or the instructions for use include:		—
	1) The serial-number or the batch code preceded by "LOT" symbol 102 of Table 1	Batch No: 8c:c5:e1:38:9c:69	P
	2) i) Indication that the equipment is IVD medical equipment	See copy of marking plate.	P
	ii) Indication that the equipment is self-test IVD medical equipment		N/A
	iii) Identification of detachable components		N/A
	3) Instructions for use requires that OPERATOR use consumables within their expiration date		N/A
	Required by regulation, indicate name and address of the authorized representative of the manufacturer		N/A
5.1.5	TERMINALS, connections and operating devices		N/A
5.1.5.101	Gas and liquid connections	No such connections.	N/A

Test Report No: QVC/TEST/22/07/08		EN 61010-2-101: 2002		Page 7 of 12	
				Issue Date:	16/07/2022
Clause	Requirement-Test	Observation	Verdict		
	For safety, equipment clearly marked near to connector on the equipment with:		—		
	a) Means of identifying which gas or liquid used; where no internationally recognized symbol (including chemical formulae) exists, equipment marked with symbol 14 of Table 1		N/A		
	b) Maximum permitted pressure, or alternatively symbol 14 of Table 1 used		N/A		
5.1.101	Transport and storage	See Instruction manual	P		
	Packaging of equipment labelled to indicate special conditions for transport or storage	See Instruction manual	P		
5.3	Durability of markings			P	
	The required markings resist the effects of temperature and rubbing, and of solvent and reagents likely to be encountered in NORMAL USE	Complies	P		
	Resistant also against agents specified by manufacturer for cleaning and decontamination procedure		N/A		
5.4	Documentation			P	
5.4.3	Equipment transportation, installation and assembly instructions	Complies	P		
	Documentation for the RESPONSIBLE BODY includes:		—		
	a) Instructions for transportation after delivery to the RESPONSIBLE BODY		P		
	b) Floor loading requirements, mass and dimensions are sufficient information	Table top & hand held Unit	N/A		
	c) Individual mass of heavy units		N/A		
	d) Location and mounting instructions		N/A		
	e) Assembly instructions	See instruction manual	P		
	f) Instructions for protective earthing		N/A		
	g) The sound data required by 12.5.1		N/A		
	h) Instructions relating to the handling, contain and exhaust of hazardous substances		N/A		
	i) Any drainage systems required		N/A		

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Issue Date: 16/07/2022

Clause	Requirement-Test	Observation	Verdict
	j) Protective measures relating to HAZARDOUS radiation		N/A
	k) Connections to the supply	Complies	P
	l) PERMANENTLY CONNECTED EQUIPMENT only:	Not permanently connected.	—
	1) Mains supply requirements and details of connections		N/A
	2) If external switch or circuit-breaker, requirements and location recommendation		N/A
	m) Special services including pressure limits		N/A
5.4.4	Equipment operation	Complies	P
	Instructions for use include:	See Below	—
	a) Details of operating controls	Complies	P
	b) Positioning for disconnection (see 6.11)	Complies	P
	c) Interconnection		N/A
	d) Specification of intermittent operation limits		N/A
	e) Explanation of symbols used	Complies	P
	f) Any actions to be taken by an OPERATOR to deal with HAZARDS	See instruction manual	P
	g) Cleaning and decontamination (see 11.2) incl. materials	See instruction manual	P
	h) Disposal of hazardous waste	See instruction manual	P
	i) Hazardous chemical substances, use, need for training, or personal	See instruction manual	P
	j) Infectious substances, need to use personal protective equipment, e.g. gloves or gowns	See instruction manual	P
	k) Hazardous vapours, instructions and requirements for protection of the mouth, nose or eyes		N/A
	l) Hazardous radiation, instructions and requirements for protective devices		N/A
	m) Instructions about RISK reduction procedures relating to flammable liquids (see 9.5 c))		N/A

Test Report No: QVC/TEST/22/07/08		EN 61010-2-101: 2002		Page 9 of 12	
				Issue Date:	16/07/2022
Clause	Requirement-Test	Observation	Verdict		
	n) Methods of reducing RISKS of burns from surfaces permitted to exceed temperature limits of 10.1		N/A		
	o) Warnings to reduce RISK during loading and unloading of samples and reagents (see 7.3.102)		N/A		
	p) Instructions for RESPONSIBLE BODY that all retaining hardware in place on removable PROTECTIVE BARRIERS and removable PROTECTIVE BARRIERS in place on instrument during normal operation	No such construction.	N/A		
	q) A statement for required TOOL to remove fixed PROTECTIVE BARRIER and/or ENCLOSURE guarding a SAMPLE ZONE, access to that TOOL controlled by RESPONSIBLE BODY		N/A		
	r) A statement listing the TOOLS controlled by RESPONSIBLE BODY		N/A		
5.4.4.101	Instructions for use, self-test IVD medical equipment	Not self-test.	N/A		
	Instructions for use for self-test equipment comply with ISO 18113-5		N/A		
5.4.101	Removal of equipment from use for repair or disposal	See below	P		
	Instructions for the RESPONSIBLE BODY for eliminating or reducing HAZARDS includes:		—		
	Removal from use		N/A		
	Transportation or disposal, or		N/A		
	Appropriate contact information provided	Contact information is provided in User manual.	P		
5.4.102	Transport and storage		P		
	Permissible environmental conditions for transport and storage of the equipment specified:		—		
	In documentation and	In manual	P		
	Essential information on outside of package using appropriate symbols (see 5.1.101)	See marking plate.	P		

Test Report No: QVC/TEST/22/07/08		EN 61010-2-101: 2002		Page 10 of 12	
				Issue Date: 16/07/2022	
Clause	Requirement-Test	Observation	Verdict		
	Manufacturer assumes responsibility for delivery and installation, above documentation not required		N/A		
6	PROTECTION AGAINST ELECTRIC SHOCK		-		
	This clause of part 1 is applicable	Refer to Section-1 of this report	-		
7	PROTECTION AGAINST MECHANICAL HAZARDS		N/A		
7.3.1	General	Refer to Section-1 of this report	-		
	Conditions specified in 7.3.4, 7.3.5 and 7.3.101 are considered to represent a tolerable level		N/A		
7.3.2	Exceptions	No such exception.	N/A		
	Warning markings prohibiting access by untrained OPERATORS, placed within the area requiring maintenance and alert OPERATOR to the hazard		N/A		
	Alternative symbol 14 of Table 1 used, with warnings included in documentation		N/A		
	b) 4) OPERATOR maintenance instruction specify safe maintenance procedure		N/A		
7.3.3	RISK assessment for mechanical HAZARDS to body parts		N/A		
	Risks reduced to a tolerable level by at least applicable minimum protective measure of Table 12, taking into account the severity, probability of exposure and possibility of avoiding the HAZARD		N/A		
7.3.101	SAMPLE ZONE		N/A		
	Equipment with a SAMPLE ZONE comply with the requirements of one or more of the following:		—		
	aa) PROTECTIVE BARRIER or		N/A		
	bb) all following measures apply:		—		
	1) Minimum maintained gap between LOADING ZONE and SAMPLE ZONE is 120 mm		N/A		
	2) Unintentional contact between OPERATOR and sample/reagent pipettor is unlikely	See Instruction manual	N/A		

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				Issue Date: 16/07/2022	
Clause	Requirement-Test	Observation	Verdict		
	3) Area between LOADING ZONE and SAMPLE ZONE marked with symbols 14 and 101 of Table 1 (see 5.4.4 o)), or if not visible by OPERATOR marking located visible and is close to the area		N/A		
8	RESISTANCE TO MECHANICAL STRESSES			N/A	
	General	Refer to Section-1 of this report	-		
8.1.101	Transport and storage	Not evaluated in this section report.	-		
	Records of tests performed by the manufacturer show conformity (Guidance ASTM D4169 of ISTA)		N/E		
	Manufacturer assumes for delivery and installation, the above requirement is met without inspection of test records		N/E		
9	PROTECTION AGAINST THE SPREAD OF FIRE			-	
	The Clause of Part 1 is applicable	Refer to Section-1 of this report	-		
10	EQUIPMENT TEMPERATURE LIMITS AND RESISTANCE TO HEAT			-	
	The Clause of Part 1 is applicable	Refer to Section-1 of this report	-		
11	PROTECTION AGAINST HAZARD FROM FLUIDS			-	
	The Clause of Part 1 is applicable	Refer to Section-1 of this report	-		
12	PROTECTION AGAINST RADIATION, INCLUDING LASER SOURCES, AND AGAINST SONIC AND ULTRASONIC PRESSURE			-	
	The Clause of Part 1 is applicable	Refer to Section-1 of this report	-		
13	PROTECTION AGAINST LIBERATED GASES AND SUBSTANCES, EXPLOSION AND IMPLOSION			P	
13.101	Bio hazardous substances	See instruction manual	p		
	Potentially infectious equipment due to samples or reagents marked with biohazard symbol 101 of Table 1:		—		
	- Near sampling area, visible in NORMAL USE	Complies	P		
	- Placed near biohazardous areas accessed during OPERATOR maintenance visible	Complies	P		

Test Report No: QVC/TEST/22/07/08		EN 61010-2-101: 2002		Page 12 of 12	
				Issue Date: 16/07/2022	
Clause	Requirement-Test	Observation	Verdict		
	- Marked on containers or bags for biohazardous waste material which can be removed from equipment during NORMAL USE	See instruction manual	N/A		
	Equipment which becomes hazardous due to use of hazardous substances marked with appropriate international symbol, or symbol 14 of Table 1		N/A		
14	COMPONENTS AND SUBASSEMBLIES			N/A	
	This clause of Part 1 is applicable.	Refer to Section-1 of this test report	-		
14.3	Over-temperature protection devices			N/A	
	Not self-resetting in self-test IVD equipment	No such construction	N/A		
15	PROTECTED BY INTERLOCKS			N/A	
	This clause of part 1 is applicable	Refer to Section-1 of this test report	-		
15.1	General			N/A	
	Alternative method for interlock systems containing electric/electronic or programmable components (E/E/P components), reliability and design requirements determined by applying IEC 62061 (SIL) or ISO 13849 (PL) or other solutions with equivalent functional safety		N/A		
17	RISK ASSESSMENT			P	
	RISK assessment carried out and documented in acc. to the requirements of ISO 14971 for HAZARDS which not addressed in this standard and Part 1.		P		

*** END OF SECTION-2***

Attachment 1:-Photograph of Equipment



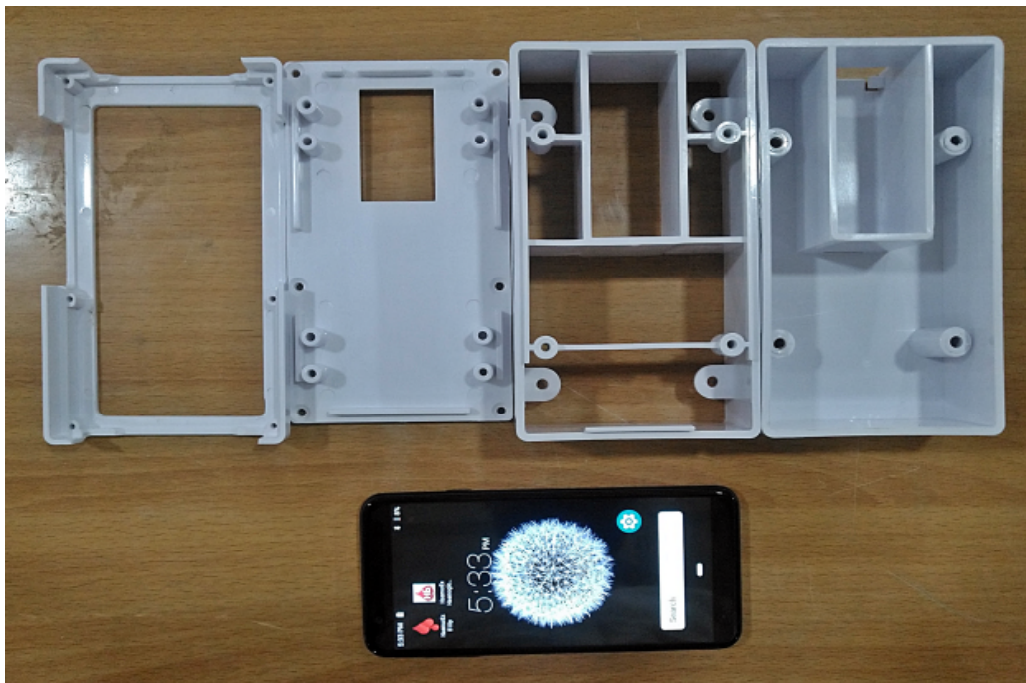
Equipment Under Test (EUT) View-1



Equipment Under Test (EUT) View-2



Equipment Under Test (EUT) Connector View



Equipment Under Test (EUT) Internal View

*** END OF TEST REPORT***

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