

Test	Report	No ·	
1621	report	INO.:	

# TEST REPORT

## **Astute Labs Pvt. Ltd**

Corporate Office: #306, 4th Floor, Sai Apex, Near Datta Mandir, Viman Nagar, Pune-411014, Maharashtra, India.

Test House: Sr. No. 82/1, Bajirao Dhawade Patil Industrial Estate, NDA Road, Shivane,
Pune-411023, Maharashtra, India.
Phone: 020-65008994
www.astutelabs.net





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Report No. 2205003

#### **TEST REPORT**

IEC 60601-1:2005+AMD1:2012+AMD2:2020 Medical electrical equipment

Part 1: General requirements for basic safety and essential performance

Approved by (+ signature) ............. Kunal Deshpande

Date of issue...... 10.05.2022

Testing laboratory..... Astute Labs Pvt. Ltd.

Address ...... Office # 01A, B Wing, Siddhesh Optimus, Opp.Lunkad Queensland,

Shivane, Pune-411023, Maharashtra, India

Applicant ..... Atreya Innovations Pvt Ltd

Address ...... Office no 1, 3 rd floor, City Center, Hinjewadi Phase I, Pune

411057.

equipment Part 1: General requirements for basic safety and

essential performance

electrical equipment Part 1: General requirements for basic safety

and essential performance

Procedure deviation..... N/A

Non-standard test method .....: N/A

Discipline/ Group..... Electronics / Safety Testing Facility

Type of test object ...... Nadi Parikshan Device

Trademark ...... Nadi Tarangini

Model/type reference...... Nadi Parikshan Device

Manufacturer ...... Atreya Innovations Pvt Ltd

Address ...... Office no 1, 3 rd floor, City Center, Hinjewadi Phase I, Pune

411057.

Ratings ...... Input:

1) Supplied by AC mains: 100-240VAC, 50/60Hz, 250mA, or

2) Supplied by external adapter: NA, or

3) Supplied by internal electric power source: 3.7 VDC, 1800mAh









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Report No.

## Report Modifications Summary

The following changes were made to this report. If none listed in the below table, this report is the originally issued report.

Date Modifie		Modification	Modified By
	None		Modified By







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#### COPY OF MARKING PLATE

Manufactured by	Date of Manufacturing if applicable.	Input Supply: 100-240VAC 250mA , 50- 60Hz,
Atreya innovations Private Limited. Address: Office no 1, 3 <sup>rd</sup> floor, City Center, Hinjewadi Phase 1, Pune 411057.	February 2022.	
Sr. No. NT000581	Model / Type : Nadi Tarangini	
*	Refer manual optional	







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INDL

GENERAL INFORMATION	
Condition of the EUT	EUT received in working condition / non- working-condition
Test item particulars (see also clause 6):	
Classification of installation and use	Transportable / Portable / Stationary / Mobile / Fixed / Permanently installed / Hand-held/ Body Worn
Supply connection	Internally powered /Permanently installed / Appliance Inlet / Non-detachable cord
Accessories and detachable parts included in the evaluation :	N/A
Options included	N/A
Possible test case verdicts:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	Pass
- test object does not meet the requirement:	Fail
- not evaluated	N/E(collateral standards only)
Abbreviations used in the report:  - normal condition	- single fault condition:S.F.C basic insulation:BI - supplementary insulation:SI - reinforced insulation:RI
General remarks:  "(see Attachment #)" refers to additional information appended to the report.  "(see appended table)" refers to a table appended to the report. Throughout this report a point is used as the decimal separator. The tests results presented in this report relate only to the object his report shall not be reproduced except in full without the writting is to fest equipment must be kept on file and available for review of the contents provided on the last page of this report.	t tested.
he sample has been provided by the customer	
esting	

General product information and considerations: Nadi Tarangini auscultates subtle changes in overall health parameters based on Vatta, Pitta, Kapha (Tridosha) diagnostics. Nadi tarangini is an ideal fit for doctors who are practitioners of Ayurveda, homeopathy, Naturopathy, acupuncture & alternative traditional medicines to unmask really helpful information about the inner health of their patients. It would also be helpful for wellness centers, Gym trainers, Yoga trainers, health coaches & nutritionists to understand their users completely and design a personalized wellness plan for them accordingly.

Date of receipt of test item(s)...... 11.04.2022

Dates tests performed......12.04.2022 to 07.05.2022



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### **Test Report**

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						R	leport No. 2205003
Table	: Insulation Diagra	m					
Pollut	ion degree		2				
Overv	oltage category		2				
Altitud	le		≤ 2000				
СТІ			IIIB				
Area	Number and type of Means of Protection: MOOP, MOPP	Referenc e voltage (V)	Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	
Α	ВІ	230	2.5	2.0	>5	>4	Pass
В	DI	3.7	1.7	0.8	>4	>3	1 200
С	DI	3.7	1.7	0.8	>4	>3	1 465

### **INSULATION DIAGRAM CONVENTIONS**

Insulation diagram is a graphical representation of equipment insulation barriers, protective impedance and protective earthing. If feasible, use the following conventions to generate the diagram:

- All isolation barriers are identified by letters between separate parts of diagram, for example separate transformer windings, optocouplers, wire insulation, creepage and clearance distances.
- Parts connected to earth with large dots are protectively earthed. Other connections to earth are functional
- 3. Applied parts are extended beyond the equipment enclosure and terminated with an arrow.
- Parts accessible to the operator only are extended outside of the enclosure, but are not terminated with an arrow.







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4.11 TABLE: F	Power input	er input									
Operating condition	Voltage V	Frequency Hz	Current mA	Power VA	Watts W	Remarks					
Stable	100	50	44.5	9.20	3.55	Pass					
Stable	170	50	43.0	9.91	3.68	Pass					
Stable	240	50	42.5	10.75	3.83	Pass					
Working condition	100	50	44.9	9.30	3.55	Pass					
Working condition	170	50	43.3	9.96	3.68	Pass					
Working condition	240	50	42.6	10.77	3.83	Pass					
Supplementary info	ormation: At the	time of charg	ging								

5.7	Humidity preconditioning treatment	Pass	
Tempera	ture	25°C	
Humidity		93%	
Time		48 Hr	

Location	Determination method (NOTE1)	Comments	Remark
Front display	Visual; Rigid test finger; Jointed test finger; Test hook	No electrical parts are accessible	Pass
Back side of the unit	Visual; Rigid test finger; Jointed test finger; Test hook	No electrical parts are accessible	Pass







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7.1.2 TABLE: Legibility of Marking	Pass			
Markings Tested	Ambient Illuminance (Ix)	Remarks		
Outside Markings (Clause 7.2)	100-1500	The markings can be correctly read from the viewpoint.		
Inside Markings (Clause 7.3)	100-1500	The markings can be correctly read from the viewpoint.		
Controls & Instruments (Clause 7.4)	100-1500	The markings can be correctly read from the viewpoint.		
Safety Signs (Clause 7.5)	100-1500	The markings can be correctly read from the viewpoint.		
Symbols (Clause 7.6)	100-1500	The markings can be correctly rea from the viewpoint.		

Supplementary information:

Observer, with a visual acuity of 0 on the log Minimum Angle of Resolution (log MAR) scale or 6/6 (20/20) and is able to read N6 of the Jaeger test card in normal room lighting condition (~500lx), reads marking at ambient illuminance least favourable level in the range of 100 lx to 1,500 lx. The ME EQUIPMENT or its part was positioned so that the viewpoint was the intended position of the OPERATOR or if not defined at any point within the base of a cone subtended by an angle of 30° to the axis normal to the centre of the plane of the marking and at a distance of 1 m.

7.1.3	TABLE: Durability of Marking Test						
Marking tested		Remarks					
Address of the manufacturer		Pass					
Supply voltages		Pass					
Serial number & model		Pass					
Attention	n, consult accompanying document	Pass					
All warning and caution labels		Pass					

Supplementary information:

Marking rubbed by hand, first for 15 s with a cloth rag soaked with distilled water, then for 15 s with a cloth rag soaked with ethanol 96%, and then for 15 s with a cloth rag soaked with isopropyl alcohol.







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8.4.3	TABLE: residu	al volt	age in a	attachn	nent plu	ıg						
	llowable voltage											60
					tage m							
Voltage mea	asured between:	1	2	3	4	5	6	7	8	9	10	Remarks
supply pins pin 2)	s (pin 1 &	0	0	0	0	0	0	0	0	0	0	Pass
line pin 1 a	nd enclosure	0	0	0	0	0	0	0	0	0	0	Pass
line pin 2 a	nd enclosure	0	0	0	0	0	0	0	0	0	0	Pass
pin 1 and e	earth pin	0	0	0	0	0	0	0	0	0	0	Pass
pin 2 and earth pin		0	0	0	0	0	0	0	0	0	0	Pass
Maximum a	allowable stored	d charg	je wher	n meas	ured vo	ltage e	xceede	ed 60 v	(µc)			45
			(	Calcula	ted stor	ed cha	rge (m	c)				
Voltage mea	sured between:	1	2	3	4	5	6	7	8	9	10	Remarks
supply pins pin 2)	(pìn 1 &											N/A
line pin 1 ar	nd enclosure											
line nin 2 ar	nd enclosure											
inc pinz ai												
pin 1 and ea	arth pin											

8.4.4	TABLE: residual voltag					
Maximum	n allowable residual voltage (\	<b>/</b> ):				60 V
Maximum	n allowable stored charge whe	en residual voltage	e exceeded 60 V			45µC
Capacitor and its location		Capacitor and its location Residual voltage (V)		Capacitance value (µF)	Residual energy (mJ)	Remarks
						N/A







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8.6.4	TABLE: Impedance and current-carrying capability of PROTECTIVE EARTH					
Test locat	ion	Test current (A)/ Duration (s)	Maximum calculated Impedance (m $\Omega$ )	Remarks		
				N/A		
Sunnlam	entary information: With mains	supply cord (Max. 200 mΩ)				







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Test Element

TABLE: leakage current (Before per condition)

### Test Result

Test Type IEC 60601-1 - CL2 Auto Sequence Procedure: (1) Connect the DUT to the ESA620 as indicated in the operators manual. (2) Ensure that DUT power is On. (3) Click module setup and specify the patient leads that are to be tested. (4) Connect patient leads as indicated to the right. (5) Click Start Test to perform the safety test. Applied Part setup **Applied Part info** A.P. Code Class Leads Senal No. Type Mains Voltage Mains Voltage Live to Neutral Mains Toltage Live to Neutral Value Unit High Limit Low Limit Live to Neutral Standard 228.4 IEC 60601 Enclosure Leakage Current Enclosure Leakage Current Configuration: Unused Applied Parts: Floating Normal Condition Enclosure Leakage Current Result: Normal Condition Value Unit High Limit Low Limit Normal Condition Standard 11.6 uAAC+DC 100 IEC 60601 Open Neutral Enclosure Leakage Current Open Neutral Unit High Limit Result: Value Low Limit Open Neutral Standard 4.3 uAAC+DC 500 IEC 60601 Normal Condition, Reversed mains Enclosure Leakage Current Normal Condition, Reversed mains Result: Value Unit High Limit Normal Condition. Low Limit Standard 6.3 uAAC+DC Reversed mains 100 IEC 60601 Open Neutral, Reversed Mains Enclosure Leakage Current Open Neutral, Reversed Mains Unit High Limit Low Limit Result: Value Open Neutral, Standard Reversed Mains 9.5 uAAC+DC 500 IEC 60601 Patient Leakage Current Configuration: Patient Leakage Current Total Leakage: No Unused Applied Parts: Floating

Normal Condition

Patient Leakage Current

Normal Condition







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Fluke Biomedical Ansur Test Report  Test Element  Result:	SHA.	Test T	Гуре	(0.5) 8.35	
B(1)	Value 0.6	Unit uAAC+DC	High Limit 100	Low Limit	Standard IEC 60601
Open Neutral		Patient Open N	Leakage Curren	nt	
Result: B(1)	Value 0.9	Unit uAAC+DC	High Limit 500	Low Limit	Standard IEC 60601
Normal Condition. Reversed mains		Patient .	Leakage Curren Condition, Reve	t	
Result: B(1)	Value 0.5	Unit uAAC+DC	High Limit 100	rsea mains Low Limit	Standard IEC 60601
Open Neutral, Reversed Mains		Patient I	Leakage Curren	1	
Result: B(1)	Value 1.0	Unit uAAC+DC	nural, Reversed High Limit 500	Mains Low Limit	Standard IEC 60601







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8.7

TABLE: leakage current (After per condition)

#### **Test Result**

lest Result						
Test Element	A THE LOCAL PROPERTY OF THE PARTY OF THE PAR	Test T		Fill Charles		
IEC 60601-1 - CL2		Auto Seg	pience			
Procedure: (1) Connect the DUT to	N. ECA	san as ind	icated in t	he operators	manual.	
(2) Ensure that DUT pow (3) Click module setup a	ver is Of	l. :6, the nat	ient leads	that are to l	e tested.	
(3) Click module setup a	na spec	ily the par	he right	that one is		
(4) Connect national lead	s as indi	icated to t	ne rigit.			
(5) Click Start Test to p	perform	the safety	test.			
Applied Part setup						
					Class	Leads
# Applied Part info 1 A.P. Code		1			В	1
		i				
Serial No.		i				
Type						
Mains Voltage		Mains I	'oliage			
MAIIS COMEC						
Live to Neutral		Mains I Live to 1				
	Value		High Limit	Low Limit		Standard
Result: Live to Neutral	228.3	V	•			IEC 60601
Live to Nedual	220.5					
E. L Looks as Correct		Enclosi	re Leakage Cur	rent		
Enclosure Leakage Current Configuration:						
Unused Applied Parts: Floati	ing					
,,						
NI Cardition			re Leakage Cur Condition	ายน		
Normal Condition	Value	Normal Unit	High Limit	Low Limit		Standard
Result:	47	uAAC+DC	100			IEC 60601
Normal Condition	7.1	<b>D</b> 110.55				
		Enclosi	re Leakage Cur	reni		
Open Neutral		Open N	eutral			Standard
Result:	Value		High Limit	Low Limit		IEC 60601
Open Neutral	13.1	uAAC+DC	500			ILO COCO.
-						
Normal Condition, Reversed mains			re Leakage Cur Condition, Rev			
	Value	Normal Unit	High Limit	Low Limit		Standard
Result:			100			IEC 60601
Normal Condition, Reversed mains	3.0	uAAC+DC	100			120 0000
		Enclosi	ıre Leakage Cur	rent		
Open Neutral, Reversed Mains		Open N	oural, Reversed	l Mains		Standard
Result:	Value	Unit	High Limit	Low Limit		
Open Neutral, Reversed Mains	12.2	uAAC+DC	500			IEC 60601
		D	Leakage Currer	of		
- 1 0		ranent	Leakage Currer	44		

Patient Leakage Current
Configuration:
Total Leakage: No
Unused Applied Parts: Floating

Patient Leakage Current

Normal Condition

Patient Leakage Current Normal Condition







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Fluke Biomedical Ansur Test Report					
Test Element	Test Type				
Result: B(1)	Value 0.8	Unit uAAC+DC	High Limit 100	Low Limit	Standard IEC 60601
Open Neutral		Patient Open N	Leakage Currer	nt	
Result:	Value	Unit	High Limit	Low Limit	Standard
B(1)	0.7	uAAC+DC	500		IEC 60601
Normal Condition, Reversed mains			Leakage Curren		
Result:	Value	Normai Unit	Condition, Reve High Limit	Low Limit	Standard
B(1)	0.7	uAAC+DC	100	LOW LININ	IEC 60601
Open Neutral, Reversed Mains			Leakage Curren		
• • • • • • • • • • • • • • • • • • • •	Malue	Open Ne Unit	nıtral, Reversed High Limit	Low Limit	Standard
Result:	Value 0.8	uAAC+DC	500	LOW LIMIT	IEC 60601
B(1)	0.8	UMMC+DC	500		ILC 00001





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#### **Test Report**

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				F	Report No. 2205003
8.8.3	TABLE: D	Dielectric strength(Before per cond		,	
(area fro	on under test om insulation gram)	Inquilation T	Peak Working	Test voltage	Remarks
Mains to E			voltage (V)	(V)	Nomana
Mains to B	•	1 MOOP			N/A
lains to A	oplied part	2 MOPP	230	150	00 Pass
			230	400	0 Pass

8.8.3 TABLE	Dielectric strength(After per conditi	on)		
Insulation under te (area from insulatio diagram)	t lead to	Peak Working	Test voltage	Remarks
Mains to Earth		voltage (V)	(V)	
Mains to Body	1 MOOP			N/A
Mains to Applied part	2 MOPP	230	1500	Pass
		230	4000	Pass

8.8.4.1	TABLE: Resistance to heat - Ball pressure	test of them	nonlastic and	
	Allowed impression diameter (mm) Force (N)		mm	
	Test Time (Hr)	20		
Part/mater	ial	1		
nclosure			Test temperature (0C)	Impression diameter (mm
			70	0.8

9.4.2.1   TABLE: Ins	ability awart t	
	ability—overbalance in transport position	
ME Equipment		
preparation	Test Condition (transport position)	
Nadi Tarangini		Remarks
	Transport position	-
		The equipment did not
		overbalance ABS
		Laco.
		No.
		O INDIA

ULR- 16536522000000009F





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9.4.2.2	TABLE: Instabilit	y—overbalance excluding transport position	
	E Equipment preparation	Test Condition (excluding transport position) Test either 5 ° incline and verify Warning marking or 10 ° incline)	Remarks
Nadi Tar	rangini	Excluding transport position	The equipment did not overbalance

11.1.1	TABLE: normal tempe	rature				
Supply vo	Itage: 90 & 264 VAC	Test Condition	: As per user m	anual		
Ambient te	emperature: 25°C					
Working Voltage	Measuring location		Measured temperature [°C]	Limits	Table	Remarks
90	PCB		40	105	22	Pass
	ON/OFF switch		38	60	23	Pass
	Enclosure		39	48	23	Pass
	Battery		51	105	22	Pass
	Sensor- V		37	43	24	Pass
	Sensor- P		37	43	24	Pass
	Sensor- K		38	43	24	Pass
	Control card IC		45	105	22	Pass
264	PCB		43	105	22	Pass
204	ON/OFF switch		41	60	23	Pass
	Enclosure		42	48	23	Pass
	Battery		55	105	22	Pass
	Sensor- V		39	43	24	Pass
	Sensor- P		38	43	24	Pass
	Sensor- K		39	43	24	ABOSS
	Control card IC		49	105	22/	Pass
	Control Card 10					INDIA

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15,3	TABLE: Mechanical Stre	ength tests	
Clause	Name of Test	Test conditions	Observed
15.3.2	Push Test	Force = 250 N ± 10 N for 5 s	results/Remarks No damage observed
15.3.3	Impact Test	Steel ball (50 mm in dia., 500 g ± 25 g) falling from a 1.3 m	No damage observed
15.3.4.1	Drop Test (hand-held)	Free fall height (m) =	N/A
15.3.4.2	Drop Test (portable)	Drop height (cm) =5	No damage observed
15.3.5	Rough handling test	Travel speed (m/s) = 0.8m/s	N/A
15.3.6	Mould Stress Relief	7 h in oven at temperature (°C) =70	No deformation on enclosure







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Summary of contents:

The equipment has been tested according to standard IEC 60601-1:2005+AMD1:2012+AMD2:2020 Medical electrical equipment Part 1: General requirements for basic safety and essential performance.

All applicable tests according to the above specified standard(s) have been carried out.

This test report comprises 24 pages of Test Report including the Annexure 'A' showing the pictures of the Test set-up and the Annexure 'B' Terms and Conditions of this Test Report.

For Astute Labs Rvt. Ltd.,

**Authorised Signatory** 







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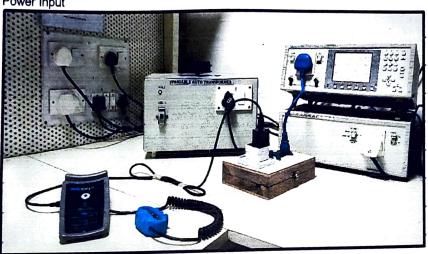
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### Annexure 'A'

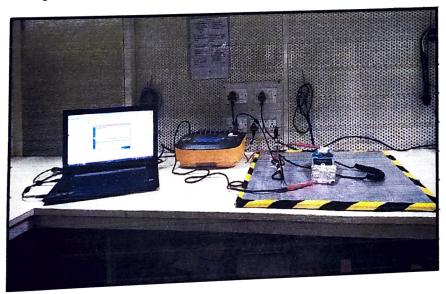
Photographs of the test set up.

Note: The photographs are provided to explain the set up of the test. For safety reasons it is not possible to photograph the actual test results.

Power Input



#### Leakage current







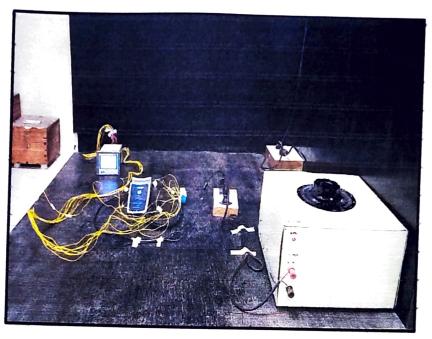


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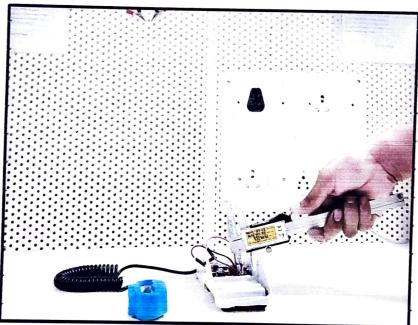
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### Temperature monitoring



Creepage & Clearance



ABS ON INDIA



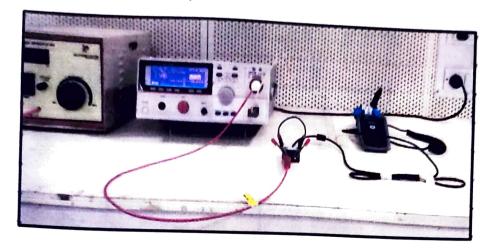


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## Dielectric strength -- Mains to body









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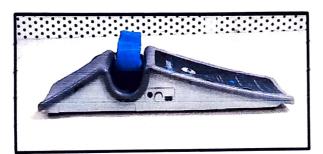
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Product Photograph

Top Side



Left Side







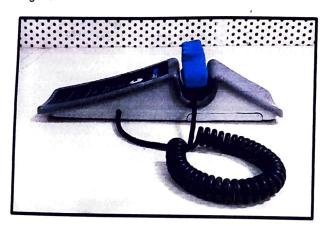


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Right Side



Inside









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### Terms and Conditions:

#### Annexure 'B'

This Test Report is prepared by Astute Labs Pvt. Ltd., Pune, hereinafter referred to as the "Laboratory", upon a request from the applicant as mentioned on the page 1 of the report under the title "Applicant", hereinafter referred to as the "Applicant". The Applicant submitted a product for tests as conducted in the Report, as mentioned on the page 1 of the report under the title "Model/type reference", hereinafter referred to as the "Product".

2. This Test Report issued by the Laboratory, is a record of tests conducted on the Product submitted by the Applicant for testing and the results thereof and does not apply to any other items even

3. This test report if required to be reproduced for any purpose, commercial or otherwise, a prior permission should be taken for the same from the Laboratory.

The Laboratory shall not be liable / responsible for any liquidated, un-liquidated damages, costs, expenses, losses of whatsoever nature arising out of the, or relating to or use of or reliance on the

5. The results contained herein apply only to the particular sample/s tested and to the specific tests carried out, as detailed in this Test Report.

6. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by the Laboratory of any product.

7. The Laboratory shall not be liable and or responsible for any unauthorised changes, alterations, modifications made by any person including the Applicant, to the Test Report.

8. The Test Results reported in this report are valid at the time of and under the stated conditions of

9. The Laboratory does not guarantee the recognition or acceptance of the report by any specific certification / notified body or organization.

- 10. The Applicant has identified the applicable standards for the Product and also classified the Product according to those standards. The Laboratory has conducted the tests according to the instructions and the classifications of the Product received from the Applicant. The Laboratory is not responsible for the correctness of the classification of the Product according to the relevant standards.
- 11. The tests are conducted in the presence of the Applicant's representative who is technically competent and the Product under tests is operated according to the Operations Manual and also by consulting the applicant's representative.

12. This Test report does not and shall not be used as a basis for any performance or suitability of the Products for any purpose or for any other commercial purpose. The Laboratory shall not be liable for any liquidated, un-liquidated damages, costs, expenses of whatsoever nature ansing out of use or non-performance / under performance or failure of the Product.

13. The Test Report is non-transferable . This report shall become void in case of change in the majority ownership and or constitution of the Applicant.

14. The Laboratory relies upon the Applicant wherever the Applicant claims that the Applicant has conducted part of the tests in-house or at a third party test house. In that case the remark in the Report says "Tested Separately". The Laboratory is not responsible for the correctness or availability

15. The Test Report shall be void if the Laboratory does not receive the full payment towards the testing of the Product in the stipulated time.

16. This Test Report does not guarantee or warranty as to ownership or title or merchantability of the Product, its quality, material used for manufacture or manufacturing techniques employed by the Applicant or assure fitness of the Product for any particular use.

17. Any or all disputes arising out of this Test Report shall be subject to the jurisdiction of Courts at Pune only at the exclusion of all other courts, forums, etc.

18. Reports are submitted to clients on a confidential basis. No reference to the work, the page 18. Astute Labs in any form of advertising, news release, or other public announcement without our written authorization. Test results are applicable only to the samples being test the limits of the testing procedures identified and are not necessarily indicative of the character of any other samples from the same or other lots. Astute Labs Pvt Ltd shall not be liable under the character of the character teristics circumstances for any amount in excess of the cost of the test performed.

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