PRODUCT MANUAL FOR
IN-VITRO DIAGNOSTIC (IVD) DEVICE — ELISA PLATE READER
ACCORDING TO IS 17713: 2023

उत्पाद मैन्यूअल
इन-विट्रो डायग्नोस्टिक (आईवीडी) डिवाइस - एलिसा प्लेट रीडर
आईएस 17713: 2023 के अनुसार

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो) अनुरूपता मूल्यांकन (विनियम, 2018 की योजना -I के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता के लिए इस उत्पाद मैनुअल का उपयोग सभी क्षेत्रीय / शाखा कार्यालयों और लाइसेंसधारियों द्वारा संदर्भ सामग्री के रूप में किया जाएगा। दस्तावेज़ का उपयोग बीआईएस प्रमाणन प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता हैI

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations,2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification.

1.	**मानक संख्या** **IS No.**	:	IS 17713: 2023
	शीर्षक **Title**	:	In-Vitro Diagnostic (IVD) Device — Elisa Plate Reader
	संशोधनों की संख्या **No. of amendments**	:	Nil
2.	**नमूना दिशानिर्देश** **Sampling Guidelines**		
a)	**कच्चामाल** **Raw material**	:	None
b)	**समूहीकरण दिशानिर्देश** **Grouping Guidelines**	:	Please refer **ANNEX – A**
c)	**नमूने का परिमाण** **Sample Quantity**	:	1 machine
3.	**परीक्षण उपकरणों की सूची** **List of Test Equipment**	:	Please refer **ANNEX – B**
4.	**निरीक्षण और परीक्षण की स्कीम** **Scheme of Inspection and**	:	Please refer **ANNEX – C**

	Testing		
5.	**एक दिन में संभावित परीक्षण** **Possible tests in a day**	:	Design and constructional requirements (Clause 4) and Performance measurement and qualification procedure (Clause 6) as specified in IS 17713. All Routine tests specified in Annex-F of IS 17724 (Part1)
6.	**लाइसेंस का दायरा /Scope of the License:**		

"License is granted to use Standard Mark as per ***IS 17713:2023*** with the following scope:

Name of the product	In-Vitro Diagnostic (IVD) Device — Elisa Plate Reader
Model(s)	
Rating	Rated Voltage …..V (or) Rated Voltage Ranges(s) ……V, ac / dc 50 Hz (in case of ac), Single phase / Three Phase, Rated Input Current …. A, Input power …….W (or) …..kVA
Protection against electric shock	Class – I / Class – II

ANNEX -A

Grouping Guidelines

1. Manufacturer shall submit the declaration for each of the parameters as specified in scope of the licence (as per Sl. No. 6 above) of each model of 'In-Vitro Diagnostic (IVD) Device — Elisa Plate Reader' they intend to cover in the scope of licence.

2. For Grant of Licence/ Change in Scope of Licence, each 'Model' of 'In-Vitro Diagnostic (IVD) Device — Elisa Plate Reader' is to be tested.

3. During the operation of the Licence, BO shall ensure that all the model(s) covered in the Scope of the Licence are tested in rotation to the extent possible.

Note 1: Firm shall declare the following parameters for each of the Model of In-Vitro Diagnostic (IVD) Device — Elisa Plate Reader:

a) Degree of ingress protection as per Cl. 11.6 of IS 17724 (Part 1)
b) Pollution degree
c) List of essential reagents / accessories (if any)

Note 2: The manufacturer shall also submit the accompanying documents as per Cl.7 and Cl. 8 of IS 17713.

ANNEX- B
List of Test Equipment & Documents
Major test equipment required to test as per the Indian Standard

Sl. No.	Tests used in with Clause Reference	Test Equipment
1.	Power Input, 4.11 and Annex - F	Power Input Test Apparatus/Power Analyzer / Multimeter
2.	Ambient Temperature 5.3	Temperature recorder, AC
3.	Durability of markings, 7.1.3	Distilled water, ethanol 96%, Isopropyl alcohol, Stop watch
4.	Protective earth, Annex - F	Multimeter
5.	Mains Circuits, Annex – F	HV Tester, stopwatch, multimeter
6.	Impedance, 6.4.4	Micro ohm meter, leakage current tester (multimeter)
7.	Protective Conductor Terminal.6.5.2.3	Torque tester

Note 1: The above list is indicative only and may not be treated as exhaustive.

Note 2: The licensee shall maintain a Risk Management File as per the provisions of IS 17713: 2023 for each model in the scope of license.

Note 3: The Risk Management File shall be maintained by the licensee till the End of Life for each model.

ANNEX C
Scheme of Inspection and Testing

1. QUALITY ASSURANCE PLAN

1.1 It is expected that manufacturers (licensees/applicants) will implement a Quality Control Assurance Plan i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Control system defining the control unit (i.e. lot/batch etc.) and the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and submit the same to BIS Branch Office for information. The manufacturer shall comply with the same and maintain test records in accordance with para 2.5.

1.3 **RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT**:

1.3.1 As mentioned above, recommended levels of control are given in **Table 1 for guidance only**.

1.3.2 The tests as indicated in Table 1 and at the levels of control in column 3 of Table 1 or the Quality Assurance Plan as submitted by the manufacturer to BIS may be carried out on the whole production of the factory which is covered by this plan and records maintained in accordance with para 2.5.

1.4 However, all manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard.

2. ENSURING COMPLIANCE THROUGH TESTING- It is expected that manufacturers (licensees/applicants) will establish a suitably equipped and staffed in house laboratory (In house testing facility) for testing at least those parameters of the Indian Standard which require routine testing for ensuring quality of the product. This includes in-process controls as may be defined and put in place by the manufacturer and testing parameters/requirements which can only be performed in the factory.

2.1 For the guidance of manufacturers, Table 1 giving the recommended levels of control is given below. Column 2 of Table 1 indicates where test equipment is required in house i.e "R" or whether it can be subcontracted as "S". Subcontracting is permitted to BIS recognized/empanelled laboratory or any other laboratory having valid accreditation as per IS/ISO/IEC 17025, test reports issued by the laboratories shall be available for inspection by BIS.

2.2 **For MSME manufacturers, the requirement of maintaining a laboratory/in-house testing facility is optional.**

2.2.1 MSME manufacturers may utilize common cluster based facilities as per guidelines for the utilization of cluster based test facilities by MSMEs or the provisions of Sharing of testing facilities or get testing done from BIS recognized/empaneled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025.

2.3 **Large Scale manufacturers (including foreign manufacturers) shall maintain an in-house laboratory,** which shall be suitably equipped (as given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the method given in the specification. They shall also implement a calibration plan for the test equipment.

2.3.1 Alternatively, in lieu of an in-house laboratory, these manufacturers can also utilize the provisions of Sharing

of testing facilities as per the Annexure-X (Relaxation in test facilities) of the guidelines for Grant of Licence available on BIS website www.bis.gov.in. (Under Conformity Assessment>Product Certification Process)

2.4 TEST RECORDS- The manufacturers maintaining an in-house laboratory or utilizing common cluster based facilities or shared test facilities shall maintain test records for the tests carried out to establish conformity. For the tests being subcontracted to BIS recognized/empanelled laboratory or any other laboratory having valid accreditation as per IS/ISO/IEC 17025, test reports issued by the laboratories shall be available for inspection by BIS.

2.5.1 TECHNICAL FILE- Licencee shall maintain a Technical File for each model being manufactured by them. The Technical file shall be submitted to BIS at the time of Grant of Licence/ inclusion/ surveillance.

2.5.1.1 The Technical File shall be maintained till the End of Life of the model.

2.5.1.2 Licencee shall declare the frequency for periodic review in Technical file to BIS and record of review to be maintained. In case of any change in the Technical file due to any periodic review/ change in the product, the licencee shall inform the same to BIS at the earliest and provide the copy of the latest version of Technical File to BIS within 30 days of issue of the revised/ modified Technical File.

2.5.1.3 For changes in the product which shall affect the Scope of the Licence, the modified product shall be treated as a different model and separate Technical File shall be maintained for the same.

2.5.1.4 The technical file shall consist of the following documents:

- A general description of the product;
- Product Manual and/ or Instructions for use;
- Instructions for repair/ service for the product/ components, if required;
- Frequency of periodic repair/ service for the product/ components, if required;
- Conceptual product design and manufacturing drawings and, where appropriate, list of components, electrical circuit design, etc with descriptions and explanations needed for the understanding of these drawings;
- A list of the all Indian/ International standards applied in full or in part during the conformity assessment process with copy of test certificate/ test report;
- Test reports/ Test Certificates and risk assessment file for the product and/ or components as per relevant Clauses of the Indian Standard;
- Copies of conformity assessment documentation for critical product components;

2.5.2 RISK MANAGEMENT FILE- The licencee shall maintain a Risk Management File for each model in the scope of licence as per the requirement of IS 17713: 2023. The Risk Management File shall be submitted to BIS at the time of Grant of Licence/Inclusion/Surveillance.

2.5.2.1 The Risk Management File shall be maintained till the End of Life of the model.

2.5.2.2 Licencee shall declare the frequency of periodic review of the Risk Management File to BIS and record of review in the file to be maintained. In case of any change in the Risk Management File due to any periodic review/ change in the product, the licencee shall inform the same to BIS at the earliest and provide the copy of the latest version of Risk Management File to BIS within 30 days of issue of the revised/ modified Technical File.

3. PACKING AND MARKING - The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on each In-Vitro Diagnostic (IVD) Device — Elisa Plate Reader provided always that the

material so marked conforms to each requirement of the specification.

3.1 Packing and Marking shall be done as per Cl. 9.2 and Cl. 9.1 of IS 17713: 2023.

3.2 **Additional Marking requirements**: The material shall also be marked with the following additional requirement on each product and packaging:

a) "For BIS certification details please visit www.bis.gov.in"

3.3 All the production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark.

4. HYGIENIC CONDITIONS (if applicable) – NA.

5. REJECTION - Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act,2016.

TABLE-1

(1)				(2)	(3)		
Test Details				**Test Equipment requirement R: Required (or) S: Sub-contracting permitted**	**Levels of Control**		
Cl.	**Requirement**	**Test Method**			**No. of Sample**	**Frequency**	**Remarks**
		Clause	**Reference**				
4	**Design and Construction Requirements**						
	Design and construction requirements	4.1	IS 17713	R	Each IVD		
		4.2		R	Each IVD		
		4.3		R	Each IVD		
		4.4		R	Each IVD		
		4.5		R	Each IVD		
		4.5		R	Each IVD		
		4.6		R	Each IVD		
		4.7		R	Each IVD		
		4.8		R	Each IVD		
		4.9		R	Each IVD		
		4.10		R	Each IVD		
6	**Performance Measurement and Qualification Procedure**						
6.1	Resolution	6.1	IS 17713	R	Each IVD		
6.2	Photometric Range	6.1	IS 17713	R	Each IVD		
6.3	Light Source	6.2	IS 17713	R	Each IVD		
6.4	Wavelength	6.3	IS 17713	R	Each IVD		
6.5	Calculation Method	6.4	IS 17713	R	Each IVD		
6.6	Reading Speed	6.5	IS 17713	R	Each IVD		
6.7	Storage Requirements	6.6	IS 17713	R	Each IVD		
6.8	Accuracy of Microplate Reader	6.7	IS 17713	R	Each IVD		
6.9	Precision of Microplate Reader	6.8	IS 17713	R	Each IVD		

6.10	Linearity of Microplate Reader	6.9	IS 17713	R	Each IVD	
Annex F	*Routine Tests (As per IS 17724 (Part 1): 2023*					
	General	F.1	IS 17724 (Part 1)	R	Each IVD	
	Protective earth	F.2		R	Each IVD	
	MAINS CIRCUITS			R	Each IVD	
	General	F.3.1		R	Each IVD	
	MAINS CIRCUITS with voltage limiting devices	F.3.2		R	Each IVD	
	Floating circuits	F.4		R	Each IVD	
5	**REQUIREMENTS**					
5.1	**General Requirements**	5.1	IS 17724 (Part 1)	R		
	Marking and documentation					
	Marking	5.1	IS 17724 (Part 1)	R	Each IVD	
	General	5.1.1	IS 17724 (Part 1) IS 17724 (Part 4)	R	Each IVD	
	Identification	5.1.2	IS 17724 (Part 1) IS 17724 (Part 4)	R	Each IVD	
	MAINS supply	5.1.3	IS 17724 (Part 1)	R	Each IVD	
	Fuses	5.1.4	IS 17724 (Part 1)	R	Each IVD	
	TERMINALS, connections and operating devices	5.1.5	IS 17724 (Part 1)	R	Each IVD	
	Gas and liquid connections	5.1.5.101	IS 17724 (Part 4)			
	Switches and circuit-breakers	5.1.6	IS 17724 (Part 1)	R	Each IVD	
	Equipment protected by DOUBLE	5.1.7	IS 17724 (Part 1)	R	Each IVD	

	INSULATION or REINFORCED INSULATION					
	Field-wiring TERMINAL boxes	5.1.8	IS 17724 (Part 1)	R	Each IVD	
	Transport and storage	5.1.101	IS 17724 (Part 4)	R	Each IVD	
	Warning markings	5.2	IS 17724 (Part 1)	R	Each IVD	
	Durability of markings	5.3	IS 17724 (Part 1) IS 17724 (Part 4)	R	Each IVD	
	Documentation	5.4	IS 17724 (Part 1)	R	Each IVD	
	General	5.4.1	IS 17724 (Part 1) IS 17724 (Part 4)	R	Each IVD	
	Equipment RATINGS	5.4.2	IS 17724 (Part 1)	R	Each IVD	
	Equipment installation	5.4.3	IS 17724 (Part 1) IS 17724 (Part 4)	R	Each IVD	
	Equipment operation	5.4.4	IS 17724 (Part 1) IS 17724 (Part 4)	R	Each IVD	
	Instructions for use of self-test IVD medical equipment	5.4.4.101	IS 17724 (Part 1)	R	Each IVD	
	Equipment maintenance and service	5.4.5	IS 17724 (Part 1)	R	Each IVD	
	Integration into systems or effects resulting from special conditions	5.4.6	IS 17724 (Part 1)	R	Each IVD	
	Removal of equipment from use for repair or disposal	5.4.101	IS 17724 (Part 4)	R	Each IVD	
	Transport and storage	5.4.102	IS 17724 (Part 4)	R	Each IVD	

	Protection against electric shock					
	Determination of ACCESSIBLE parts	6.2	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	Limit values for ACCESSIBLE parts	6.3	IS 17724 (Part 1)	S	One	
	Primary means of protection	6.4	IS 17724 (Part 1)	S	One	
	ENCLOSURES and PROTECTIVE BARRIERS	6.4.2	IS 17724 (Part 1)	S	One	
	BASIC INSULATION	6.4.3	IS 17724 (Part 1)	S	One	
	Impedance	6.4.4	IS 17724 (Part 1)	S	One	
	Additional means of protection in case of SINGLE FAULT CONDITIONS					
	PROTECTIVE BONDING	6.5.2	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	SUPPLEMENTARY INSULATION and REINFORCED INSULATION	6.5.3	IS 17724 (Part 1)	S	One	
	PROTECTIVE IMPEDANCE	6.5.4	IS 17724 (Part 1)	S	One	
	Automatic disconnection of the supply	6.5.5	IS 17724 (Part 1)	S	One	
	Current- or voltage-limiting device	6.5.6	IS 17724 (Part 1)	S	One	
	Connections to external circuits					
	General	6.6.1	IS 17724 (Part 1)	S	One	
	TERMINALS for external circuits	6.6.2	IS 17724 (Part 1)	S	One	
	Circuits with TERMINALS which	6.6.3	IS 17724 (Part 1)	S	One	

	are HAZARDOUS LIVE					
	Insulation requirements	6.7	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	TERMINALS for stranded conductors	6.7.1	IS 17724 (Part 1)	S	One	
	General	6.7.1.1	IS 17724 (Part 1)	S	One	
	CLEARANCES	6.7.1.2	IS 17724 (Part 1)	S	One	
	CREEPAGE DISTANCES	6.7.1.3	IS 17724 (Part 1)	S	One	
	Solid insulation	6.7.1.4	IS 17724 (Part 1)	S	One	
	Requirements for insulation according to type of circuit	6.7.1.5	IS 17724 (Part 1)	S	One	
	Insulation for MAINS CIRCUITS of OVERVOLTAGE CATEGORY II with a nominal supply voltage up to 300 V	6.7.2	IS 17724 (Part 1)	S	One	
	CLEARANCES and CREEPAGE DISTANCES	6.7.2.1	IS 17724 (Part 1)	S	One	
	Solid insulation	6.7.2.2	IS 17724 (Part 1)	S	One	
	Insulation for secondary circuits derived from MAINS CIRCUITS of OVERVOLTAGE CATEGORY II up to 300 V	6.7.3	IS 17724 (Part 1)	S	One	
	General	6.7.3.1	IS 17724 (Part 1)	S	One	

	CLEARANCES	6.7.3.2	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	CREEPAGE DISTANCES	6.7.3.3	IS 17724 (Part 1)	S	One	
	Solid insulation	6.7.3.4	IS 17724 (Part 1)	S	One	
	Procedure for voltage tests	6.8	IS 17724 (Part 1)	S	One	
	General	6.8.1	IS 17724 (Part 1)	S	One	
	Humidity preconditioning	6.8.2	IS 17724 (Part 1)	S	One	
	The a.c. voltage test	6.8.3.1	IS 17724 (Part 1) IS 17724 (Part 4)	S	One	
	The 1 min d.c. voltage test	6.8.3.2	IS 17724 (Part 1)	S	One	
	The impulse voltage withstand test	6.8.3.3	IS 17724 (Part 1)	S	One	
	Constructional requirements for protection against electric shock	6.9	IS 17724 (Part 1)	S	One	
	General	6.9.1	IS 17724 (Part 1)	S	One	
	Insulating materials	6.9.2	IS 17724 (Part 1)	S	One	
	Colour coding	6.9.3	IS 17724 (Part 1)	S	One	
	Connection to the MAINS supply source and connections between parts of equipment	6.10	IS 17724 (Part 1)	S	One	
	MAINS supply cords	6.10.1	IS 17724 (Part 1)	S	One	
	Fitting of non-detachable MAINS supply cords	6.10.2	IS 17724 (Part 1)	S	One	

	Cord entry	6.10.2.1	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	Cord anchorage	6.10.2.2	IS 17724 (Part 1)	S	One	
	Plugs and connectors	6.10.2.3	IS 17724 (Part 1)	S	One	
	Disconnection from supply source	6.11	IS 17724 (Part 1)	S	One	
	General	6.11.1	IS 17724 (Part 1)	S	One	
	Exceptions	6.11.2	IS 17724 (Part 1)	S	One	
	Requirements according to type of equipment	6.11.3	IS 17724 (Part 1)	S	One	
	PERMANENTLY CONNECTED EQUIPMENT and multi-phase equipment	6.11.3.1	IS 17724 (Part 1)	S	One	
	Single-phase cord-connected equipment	6.11.3.2	IS 17724 (Part 1)	S	One	
	Disconnecting devices	6.11.4	IS 17724 (Part 1)	S	One	
	General	6.11.4.1	IS 17724 (Part 1)	S	One	
	Switches and circuit-breakers	6.11.4.2	IS 17724 (Part 1)	S	One	
	Appliance couplers and plugs	6.11.4.3	IS 17724 (Part 1)	S	One	
	Protection against mechanical HAZARDS					
	Sharp edges	7.2	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	Moving parts	7.3	IS 17724 (Part 1) IS 17724 (Part 4)	S	One	
	SAMPLE ZONE	7.3.101	IS 17724 (Part 1) IS 17724 (Part 4)	S	One	

	Stability	7.4	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	Provisions for lifting and carrying	7.5	IS 17724 (Part 1)	S	One	
	Expelled parts	7.6	IS 17724 (Part 1)	S	One	
	Resistance to mechanical stresses					
	General	8.1	IS 17724 (Part 1) IS 17724 (Part 4)	S	One	Once in every six months for each type of model manufactured during that period
	ENCLOSURE rigidity tests	8.2	IS 17724 (Part 1)	S	One	
	Static test	8.2.1	IS 17724 (Part 1)	S	One	
	Impact test	8.2.2	IS 17724 (Part 1)	S	One	
	Drop test	8.3	IS 17724 (Part 1)	S	One	
	Transport and storage	8.101	IS 17724 (Part 4)	S	One	
	Protection against the spread of fire					
	General	9.1	IS 17724 (Part 1)	S	One	
	Eliminating or reducing the sources of ignition within the equipment	9.2	IS 17724 (Part 1)	S	One	
	Containment of fire within the equipment, should it occur	9.3	IS 17724 (Part 1)	S	One	
	Limited-energy circuit	9.4	IS 17724 (Part 1)	S	One	
	Requirements for equipment containing or using flammable liquids	9.5	IS 17724 (Part 1)	S	One	
	Overcurrent protection	9.6	IS 17724 (Part 1)	S	One	

	Equipment temperature limits and resistance to heat					
	Surface temperature limits for protection against burns	10.1	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	Temperatures of windings	10.2	IS 17724 (Part 1)	S	One	
	Other temperature measurements	10.3	IS 17724 (Part 1)	S	One	
	Conduct of temperature tests	10.4	IS 17724 (Part 1)	S	One	
	Resistance to heat	10.5	IS 17724 (Part 1)	S	One	
	Integrity of CLEARANCES and CREEPAGE DISTANCES	10.5.1	IS 17724 (Part 1)	S	One	
	Non-metallic ENCLOSURES	10.5.2	IS 17724 (Part 1)	S	One	
	Insulating material	10.5.3	IS 17724 (Part 1)	S	One	
	Protection against HAZARDS from fluids					
	Cleaning	11.1	IS 17724 (Part 1)	S	One	
	Spillage	11.2	IS 17724 (Part 1)	S	One	
	Overflow	11.3	IS 17724 (Part 1)	S	One	
	Battery electrolyte	11.4	IS 17724 (Part 1)	S	One	
	Specially protected equipment	11.5	IS 17724 (Part 1)	S	One	
	Specially protected equipment	11.6	IS 17724 (Part 1)	S	One	
	Fluid pressure and leakage	11.7	IS 17724 (Part 1)	S	One	
	Maximum pressure	11.7.1	IS 17724 (Part 1)	S	One	

	Leakage and rupture at high pressure	11.7.2	IS 17724 (Part 1)	S	One	
	Leakage from low-pressure parts	11.7.3	IS 17724 (Part 1)	S	One	
	Overpressure safety device	11.7.4	IS 17724 (Part 1)	S	One	
	Protection against radiation, including laser sources, and against sonic and ultrasonic pressure					
	General	12.1	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	Equipment producing ionizing radiation	12.2	IS 17724 (Part 1)	S	One	
	Ionizing radiation	12.2.1	IS 17724 (Part 1)	S	One	
	General	12.2.1.1	IS 17724 (Part 1)	S	One	
	Equipment intended to emit radiation	12.2.1.2	IS 17724 (Part 1)	S	One	
	Equipment not intended to emit radiation	12.2.1.3	IS 17724 (Part 1)	S	One	
	Accelerated electrons	12.2.1.4	IS 17724 (Part 1)	S	One	
	Ultraviolet (UV) radiation	12.3	IS 17724 (Part 1)	S	One	
	Microwave radiation	12.4	IS 17724 (Part 1)	S	One	
	Sonic and ultrasonic pressure	12.5	IS 17724 (Part 1)	S	One	
	Sound level	12.5.1	IS 17724 (Part 1)	S	One	
	Ultrasonic pressure	12.5.2	IS 17724 (Part 1)	S	One	
	Laser sources	12.6	IS 17724 (Part 1)	S	One	
	Protection against liberated gases and substances, explosion and implosion					
	Poisonous and injurious gases and substances	13.1	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period

	Explosion and implosion	13.2	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	Components	13.2.1	IS 17724 (Part 1)	S	One	
	Batteries and battery charging	13.2.2	IS 17724 (Part 1)	S	One	
	Implosion of cathode ray tubes	13.2.3	IS 17724 (Part 1)	S	One	
	Biohazardous substances	13.101	IS 17724 (Part 4)	S	One	
	Components and subassemblies					
	General	14.1	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period
	Motors	14.2	IS 17724 (Part 1)	S	One	
	Motor temperatures	14.2.1	IS 17724 (Part 1)	S	One	
	Series excitation motors	14.2.1	IS 17724 (Part 1)	S	One	
	Overtemperature protection devices	14.3	IS 17724 (Part 1) IS 17724 (Part 4)	S	One	
	Fuse holders	14.4	IS 17724 (Part 1)	S	One	
	MAINS voltage selection devices	14.5	IS 17724 (Part 1)	S	One	
	MAINS transformers tested outside equipment	14.6	IS 17724 (Part 1)	S	One	
	Printed wiring boards	14.7	IS 17724 (Part 1)	S	One	
	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	14.8	IS 17724 (Part 1)	S	One	
	Protection by interlocks					
	General	15.1	IS 17724 (Part 1)	S	One	Once in every six months for each type of model

			IS 17724 (Part 4)			manufactured during that period	
	Prevention of reactivating	15.2	IS 17724 (Part 1)	S	One		
	Reliability	15.3	IS 17724 (Part 1)	S	One		
	HAZARDS resulting from application						
	REASONABLY FORESEEABLE MISUSE	16.1	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period	Testing and assessment of the product to be done as specified in the Risk assessment documentation
	Ergonomic aspects	16.2	IS 17724 (Part 1)	S	One		
	RISK assessment	17	IS 17724 (Part 1)	S	One	Once in every six months for each type of model manufactured during that period to ensure that the risks have been eliminated or that only tolerable risks remain	
5.2	EMC Requirements		IS 17784 Part-1 and IS 17784 Part-2 /IEC 61326-2-6	S	One	Once in every three years for each type of model manufactured during that period	