## AERB/445/MDX-Appform

### Government of India Atomic Energy Regulatory Board Health and Safety Division Niyamak Bhavan, Anushaktinagar, Mumbai-400094.

## Application for NOC/Type Approval of Medical Radiography/Fluoroscopy/Dental X-ray Equipment

(To be submitted by the manufacturer/assembler to the Chairman, Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai-400094 with a copy to the Head, Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, CT&CRS Building, Anushaktinagar, Mumbai-400094)

Separate form should be submitted for each type of medical diagnostic x-ray equipment

### A. Details of applicant

1. a) Name and address of the applicant/local supplier with PIN code (in block letters)

b) Mode of communication: Telephone with STD code

Telephone									
Fax									
Telex									
Telegram									
E-Mail									

#### 2. a) Name and address of the manufacturer with PIN code

b) Mode of communication:

Telephone with STD code

Telephone									
Fax									
Telex									
Telegram E-Mail									
E-Mail									

3. Person to be contacted regarding this application

	Telephone											
	Model name and type of equipment which is to be type approved											
	State whether Radiography/Fluoroscopy/Combined/Mobile/Dental/Special											
	This application is for											
	Type approval/NOCRenewal of typeRef No.:approval/NOCDate:											
	Place where the unit is to be type tested for type approval											
I	Details of equipment specification											
	Name of the model of the unit											
	Type of unit : Radiography/Fluoroscopy/Dental/ Mobile/Portable/Any other (specify)											
	Additional facilities for special examination : if any											
	Maximum rating of the unit											
	a) Kilovoltage : b) Milliampere : c) Exposure time (in seconds)											
	Number of x-ray tubes :											
	Year and country of manufacture of the : equipment											
	Details of x-ray tube											
	Name of manufacturer :											
	Type/Model - S.No. :											

3.	Nominal maximum voltage in kV	:	
4.	Nominal continuous current rating in mA	:	
5.	Type of anode	:	Stationary/Rotating
6.	Anode heat capacity (Please enclose cooling curves)	:	
7.	Method of cooling the anode	:	
8.	Target material used and target angle	:	
9.	Number of focal spots, focal spots size and location of focal spot (specify the accuracy of the marking on the tube housing)	:	One/two Small :mm xmm Large :mm xmm Accuracymm
10.	Inherent filtration provided in mm and material used	:	
11.	Year and country of manufacture	:	
D.	Details of generator		
1.	Nominal voltage	:	
2.	Type of rectification	:	Half wave/Full wave/Multipulse
3.	Mains power requirements	:	
E.	Details of x-ray tube housing		
1.	Material of x-ray tube housing (shielding) and thickness. If the material used is other than lead, specify its lead equivalence	:	
2.	Leakage radiation from the tube housing (measured at maximum rating and measured values to be averaged over an area of 100 cm <sup>2</sup> at a distance of one metre from the target) for maximum number of radiographs in one hour	:	
F.	Details of beam limiting devices and filtra	ation	
1.	Type of beam limiting device/ devices used	:	Light beam diaphragm/Cone/ Collimator/any special arrangements
2.	Leakage radiation through beam limiting devices under condition specified in E.2	:	μGy/h

3.		beam and radiation beam uence (attach a radiograph)	:	Withinmm
4.	Dimer	sions of cones provided	:	Dental/Radiography
5.	Filtrati	on provided		
	a)	Inherent/permanent filtration	:	
	b)	Added filtration	:	
	c)	Total (in mm of Al)	:	
G.	Detail	s of radiation output		
1.	X-ray for 20	beam output in $\mu$ Gy/mAs at 80 kV x 20 cm <sup>2</sup> field at one metre	:	μGy/mAs
2.		ure rate at table top for fluoroscopy kV mA (specify target to table top ce)		μGy/min
3.	floreso	ure rate on the surface of the cence screen with 30 x 30 x 30 cm <sup>3</sup> phantom (tissue equivalent phantom)		μGy/h
4.	for fluc	tion level at diaphragm control knobs proscopy machines at maximum que factors with the water phantom	:	μGy/h
н.	Detail	s of fluoroscopy machines		
1.	Minim provid	um target to table top distance ed	:	cm
2.		glass backing of fluorescent screen equivalent in millimetres)	:	
3.		to screen alignment at maximum field SD (specify the margin left all around reen)	:	
4.	Shutte	er movement mechanism	:	
5.	Туре о	of "ON"-"OFF" switch provided	:	Continuous/dead man type
6.	Lead r	ubber flaps		Size Lead equivalence
	a)	Below the screen	:	Xcm <sup>2</sup> mm
	b)	Sides of the screen		Xcm <sup>2</sup> mm
7.	Autom	natic exposure termination device	:	Yes/No

8.	Material used for table top and aluminium equivalence of table top	:	
I.	Details of image intensifier		
1.	Image intensifier provided	:	Yes/No
2.	Screen size	:	
3.	High contrast resolution	:	
4.	Low contrast resolution	:	
5.	Functions of ABC	:	
6.	Provision for reading kV, mA and pulse repetition rate	:	

# J. Any other relevant information you may like to furnish

K.	Specify the National Standards	:	Bureau of Indian Standards/any
			other(specify)

I certify that all the information furnished by me is correct to the best of my knowledge and belief.

Place :

Date :

Signature :

Name :

Designation : (Seal of the institution)