

भारत सरकार  
परमाणु ऊर्जा नियामक परिषद्

अध्यक्ष  
Chairman



GOVERNMENT OF INDIA  
ATOMIC ENERGY REGULATORY BOARD

Case File Number: TN-22120-IR-SU-IREDE-E-001

Issuance Date: 17/02/2021

Document Number: 21-COMSUPPTA-591282

Expiry Date: 17/02/2024

**TYPE APPROVAL FOR INDUSTRIAL X-RAY EQUIPMENT USED IN INDUSTRIAL RADIOGRAPHY**

This has reference to your application no. 21-687403 dated 12/01/2021 . In exercise of the powers conferred under Section-16 of the Atomic Energy Act, 1962 read in conjunction with Rule 3 of the Atomic Energy (Radiation Protection) Rules 2004, the Atomic Energy Regulatory Board (AERB) hereby issues Type Approval from radiological safety view point for the **Industrial X-ray Equipment** Unit Model **DX160** manufactured by **KARMA INNOVATIONS AND SOLUTIONS PVT LTD India** with technical specifications given in Annexure -I for sale, installation, operation, servicing and maintenance in India.

**TERMS AND CONDITIONS**

1. This Type Approval becomes invalid if any change is made in Model.
2. The Unit shall be supplied only to the user who has obtained requisite permission from AERB to procure the above equipment.
3. The supply of the said Model after expiry of this Type Approval is conditional upon its re-validation.
4. This Type Approval may be subject to review and modification based on operational experience feedback.
5. The additional terms and conditions are specified in Annexure-II.

**Issuing Authority**

G. Nageswara Rao  
Chairman

MR. KARTHIKEYAN JAWAHAR  
KARMA INNOVATIONS AND SOLUTIONS PRIVATE LIMITED  
46,ARASAMARA STREET,, AVARAMPALAYAM  
COIMBATORE-641006,  
TAMIL NADU



परमाणु ऊर्जा नियामक परिषद्, नियामक भवन, अणुशक्तिनगर, मुंबई 400094 (महाराष्ट्र)  
Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)

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**ANNEXURE-I**

<b>Details</b>	
<b>Type of Equipment</b>	Industrial X-ray Equipment
<b>Model</b>	DX160
<b>Maximum Voltage Rating (kV)</b>	160.000
<b>Maximum Current Rating (mA)</b>	5.000
<b>Maximum Photon Energies/Beam Energy (MV)</b>	NA
<b>Maximum Electron Energies (MeV)</b>	NA
<b>Original Equipment Manufacturer</b>	KARMA INNOVATIONS AND SOLUTIONS PVT LTD, India
<b>Original Equipment Supplier</b>	KARMA INNOVATIONS AND SOLUTIONS PVT LTD, India

**Issuing Authority**

G. Nageswara Rao  
Chairman

## ANNEXURE-II

1. The supplier shall ensure prior to the supply of the said unit that the user has valid permission from Radiological Safety Division, AERB, Mumbai to procure the unit and the source.
2. The unit/model shall be installed only at premises authorised by Radiological Safety Division, AERB, Mumbai.
3. The supplier shall be responsible for import, sale, installation, commissioning, servicing and maintenance, supply of spares, source replacement, decommissioning/dismantling of the unit/model and disposal of the radioactive source.
4. The supplier shall keep AERB informed about the import, sale, installation, commissioning, servicing and maintenance and performance status of the unit/model.
5. Point 2 of terms and conditions as mentioned in the type approval certificate is applicable to all equipments except cabinet type x-ray inspection systems.