



ENVOLTA

CORPORATION LLP

"Formerly known as ENVOLTA INC."

Top-Notch Radiation Safety Service Provider
Corporate Profile

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CEO's Foreword

Mr. Chandan Kumar Bera

“Envolta's mission is to help institutions make better decisions to reduce radiation exposure risk. Our Advisory Board team is passionate about building technology that helps customers simplify their work, manage safety vulnerability risks effectively, and empowers them to make more informed decisions.”

We have a technology business that enables people to fulfill their desires and aspirations.

ENVOLTA is committed to translating its discoveries and innovations into usable applications as products, and services that can provide economic well being, as well as secure sustainability benefits to the world, people, and the environment.

Based on our accrued technique and experience, we will endeavor to satisfy our clients by cutting costs, enhancing quality, and honing their skills.

Corporate **Philosophy**

Envolta is one of the pioneers in field of radiation safety and protection services. Our team of experts, operating in India are committed to AERB radiation safety norms and follow proper guidelines. Our professionals use exclusive and upgraded equipment like Radiation Protection Suit, Thyroid Collars, Face and Head Shield, Radiation Safety Boot, Radiation Monitors, TLD Badges, Wide Range Radiation Survey Meters, Radio Nuclide Identifier, GM Counters, Alpha, Beta, Gamma Contamination Monitor, etc. Evidently, our quality tested tools and techniques are the safest resort to handle radiation emergencies.

Our outstanding services ensure radiation safety for the professional involved as well as common people. We help corresponding industries to nourish and flourish without disturbing the ecological balance. We work upon measures to keep the environment healthy and happy. Remember, Love your planet because it loves you back.

MISSION

- We strive to save the environment from ionizing radiation hazards. Our mission is to offer onestop solution to radiation safety services across the country.

VISION

- To deliver excellence in innovation, insight, and discovery through our people, partnerships, nuclear expertise, and landmark infrastructure.



01

Values

ENVOLTA values your trust and never compromises on radiation safety. We conduct authentic testing via trusted equipment. For best results the sessions are also conducted with stakeholders and investors.

03

Quality

Our clientele rely on our unbiased third party inspection, testing, and auditing solutions to ensure the products, services, and overall process complies with the latest quality standards.

05

Integrity

We act with integrity and behave very responsibly. We abide by the rules, laws, and regulations of the countries wherein we operate.

02

Our Commitment

We devote our high quality services to let the nation be free of radiation risks. In addition, we assist several organizations for smooth running of business. Our forte is Radiation safety and protection services.

04

Sustainability

We help our clients to attain a more responsible and a sustainable future. We encourage environmental responsibility and reduce the risk of hazards.

06

We Speak Up

We are quite confident to raise our concerns pertaining to the subject related proposals brought to us.

Certifications:

**ISO/IEC 17025: 2017 &
ISO 9001: 2015**



Our Quality Assurance Laboratory is NABL accredited and certified under ISO/IEC 17025:2017 standard.
Ensuring trust, accuracy and globally accepted results.

Envolta **Business** streams

- Business Development Unit
- QA in Diagnostic Radiology Unit
- Purchase and Procurement Unit
- Radiation Safety Services Unit
- R&D unit
- Litigation Support Unit



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Ionizing radiation inflicts slow, enduring damage on the Earth and its life. Its danger lies not in speed, but in permanence.

Where risk is high and regulation is stringent, we stand as a beacon of integrity and unwavering responsibility.

Radiation safety is a mandatory foundation for a sustainable and secure future.

“ Safeguarding today ensures a safer tomorrow through radiation safety ”

01

Business Development Unit

Envolta create long term value for the organization building sound relationship with customers and stakeholders.

02

Radiation Safety Services Unit

Envolta has trained certified engineers, experienced radiation professionals, Radiological Safety Officer (RSO) meticulously execute all the services and supports extended for any critical situation related to Ionizing radiation. Our professionals execute the radiation survey to monitor radiation contamination as well as radiation leakage level for the instruments like: XRD, XRF etc.

03

QA in Diagnostic Radiology Unit

We ensure safety, longevity, quality of your X-ray facilities, equipment and systems as well as AERB regulatory support.

04

R&D unit

Envolta already developed a electronics systems related to the radiation safety and machine control parameters based on IOT technologies published in reputed national conference and final reviewing stage in peer-reviewed International Journal. Patent is under process. In-house indigenously building cost effective smart IOT based Radiation Survey Meter and Radionuclide Identifier is one of our prime focus.

05

Purchase and Procurement Unit

Our purchase and procurement team helps to procure essential goods & accessories as per requirement of our services, R&D and other units.

06

Litigation Support Unit

Our legal expertise team ensure assistantship and advise regarding the nuclear laws, clauses and regulations or relevant subject as per AERB and IAEA norms.

QADR Services

Diagnostic Radiology is a group of various modalities of medical imaging by using X-rays. To limit radiation exposure and optimize diagnostic X-Ray image quality; quality assurance and audit program is a essential.



From the outset, we have strived to build up an enviable clientele that includes several private as well as public industrial sector units in India. Atomic Energy Act & Radiation Protection Rules follow terrestrial laws and are effective only in India.



We have aimed to employ professionals with high caliber and in-depth knowledge and experience and latest state of art instruments to meet our clients aspirations with ease. Our entire team of qualified professionals have several years of experience working in the realm of Radiation Protection.

Our QADR Laboratory is NABL accredited and fully compliant with the ISO/IEC 17025:2017 Standard. Achievement of this milestone reaffirms our commitment to provide reliable, precise and traceable results in accordance with National and International norms.



Assistance in **AERB Approval** and **Regulatory Aspects**

Our Consultant provides expert advice and assistantship to get AERB License, Registration & Advice.

To improve compliance by radiation facilities towards the provisions of the rules as well as regarding the specified safety requirements, AERB launched a website based e-licensing (eLORA) system to facilitate easy filling of application for obtaining the AERB License/Registration. AERB has also undertaken a series of advertisements via print media with a view to reach out the respective stakeholders and also connect with the public at larger scale and subsequently cautioned them to obtain the License/Registration from AERB, which is a statutory requirement in the country.

It is therefore advised to those entire Medical Diagnostic and relevant units:

- Who has not yet obtained License/Registration from AERB, to apply immediately ?
- Our executives are well versed with the process and with a simple questionnaire, basic documentation support, training & nomination in e-LORA through AERB
- Envolta will assist and obtain the License/Registration of AERB for your medical diagnostic X-Ray equipment approval, procurement and operation at a nominal cost



Designing of **X-Ray** Room layout as per Regulatory Guidance:

X-Ray equipment must be installed in an adequately shielded room to ensure that the public near X-Ray Installations is not unduly exposed to x-ray radiation. The adequacy of shielding depends on the material and thickness used for this purpose.



There are various factors to be considered & adhered to such as:

- Suitable room and Site selection
- Shielding adequacy Doors and Windows depending on
- Sequence and Material of surrounding Walls
- Positioning the equipment (highly variable depending on the equipment and occupancy)
- The distance between the walls, doors, windows, and couch from the Primary Radiation Beam
- TLD Badges, Personal Dosimeter etc. for Radiation Workers

Naturally Occurring **Radioactive** Material (NORM)

- NORM is found in sand, soil, rocks, ores, and minerals. The generation of such wastes has the potential to induce radiation exposure in both radiation workers and in the common public along with an array of other environmental ill-effects.
- Oil and gas industries mainly deal with three types of radionuclides which are Radium 226, Radium-228, and Radon-222. Uranium-238 and Thorium-232 are the naturally occurring elements by which Radon and Radium are produced.
- We handle radioactive wastes from industrial sources nationwide. We ensure that the NORM waste is safely handled, transported, and disposed of, as per the safety standards set by the apex body.
- Envoltta meets the client's requirements for an on-site inspection in the presence of RSO, who are fully trained, well-equipped, and capable of source handling, survey process, waste management, shielding, labelling, and disposal of radioactive waste.



Technologically Enhanced Naturally Occurring **Radioactive Material (TENORM)**



TENORM is produced where the radiological, physical, and chemical properties of the NORM get concentrated by either processing or by distributing in such a way that it increases the possibility of human or environmental exposure. Employees working in TENORM producing industries may be occupationally exposed to ionizing radiation.

We have a dedicated team to analyze the level of TENORM generated by the company's production, operations and to develop a comprehensive NORM handling mechanism.

Radiation Contamination Survey: Envolta detects the presence and ensures the quality and quantity of the radioactive wastes, trains the staff; evaluates the safety and caters to the safe handling, segregation or disposal of the radioactive waste under the guidance of the regulatory body. We serve radiation survey & analysis services to mining and extraction industries, aviation industries, radiation and medical industries etc.

Radiation **Detection** and **Identification**



- Nuclear radiation cannot be detected by any of our sensory organs but it has a adverse effect on human tissue/cell due to its ionization nature. Thus qualitative and quantitative measurement of radiation is one of the crucial aspect.
- Envolta's number of radiation professional, RSO serve the responsibility to identify unknown radioactive sources as well as determine the radiation level with help of advanced and upgraded GM and Scintillator based Radiation Survey Meters, Radiation Isotope Identifier Device (RIID).
- We play the pivot role in this field of radiation level measurement and identification in all relevance industry, research and medical laboratories as a AERB authorize organization.

Radiation **Safety** and **Security** Services

- RPM (Radiation Portal Monitor) is a highly complex and consistent detection device for automatic as well as continual radioactivity detection. It provides a non-invasive measure to screen individuals for any kind of traces of radioactive element. RPM offers a combination of high sensitivity and fast development, put together in an increased degree of optimum body protection.
- We at Envolta, offer the best radiation protection service in India to defend the environment and all living things from the damaging influence of ionizing radiation.
- Our team will be glad to answer all your queries and discuss your business objective and development, through a charismatic radiation protection amenity.



Industrial Endoscope/ Borescope/ Video scope Inspection

Borescope is an optical tool especially designed for non-destructive testing to examine inaccessible places. Envolta professionals use advanced and upgraded borescope for inspecting the medium. Our inspecting device comprises of rod lens system, a reliable lens system, fibre optic image guides a CMOS camera or CCD. Our borescope is introduced into the element being assessed, without disturbing the subject of interest.

Advanced Development in Our Borescope Inspection Service

- High-resolution videoscope
- Highly elevated CMOS sensors
- Advanced probe articulation control
- Highly configured to measure minor-defects, it is highly essential for examining of aircraft turbines
- Real-time internal defect visualization

Use of Our Borescope

- It is used for non-destructive testing techniques for identifying imperfections.
- Generally used in the visual review of truck engines, automotive, aircraft engines, diesel engines, aero derivative, industrial gas turbines etc.
- Used for forensic application's in law enforcement and building inspection.
- Our borescope inspection service in India has emerged globally to control the high radiation intensity caused by aircraft engines and other sources.
- Complete video recording of our inspection.

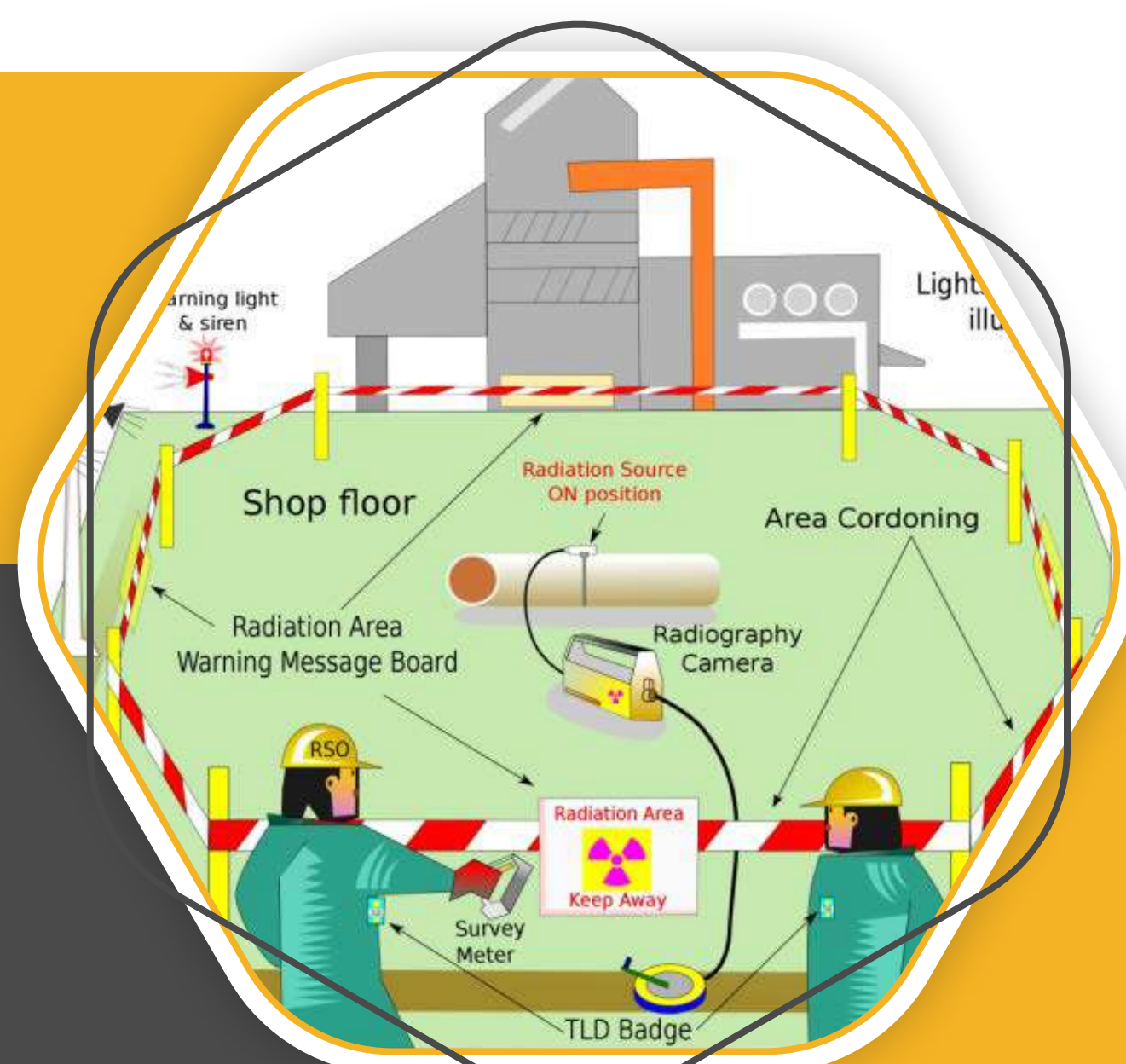


Industrial Radiography

Industrial Radiography technique is a type of Non-Destructive Testing. It uses ionization radiation to detect any impurities like: cracks, slugs, pores and a lack of fusion in the engineering structures. In this imaging technique, radiation is used, to examine the core components of the material without destructing its physical or chemical morphology.

We would like to introduce ourselves as the pioneer in the field of Non-Destructive Testing. We deliver quick and detailed insight to corroborate internal features of parts and assemblies through the use of the radiographic system.

Envolta, an AERB acclaimed radiography unit, offers a full range of industrial radiography services and techniques. Our trained radiographers, radiation safety officer have the acumen to handle various projects both onsite and offsite to expedite the process ensuring the best quality service in economical way.



Radiation Monitoring Devices Sales

We offer technical solutions in nuclear radiation field, supply corresponding instruments and gadgets relevant to this field.

Envolta also offers protective accessories to provide necessary shielding from secondary radiation to occupational workers.

We used to supply following instruments directly from Original Manufacturer of Equipment (OEM):



Radiation Survey Meter



Area Monitor



**Diagnostic X-ray
Equipment**



**Radiation Protection Suit,
Shield and Gadget**



**Radiation Contamination
Meter (α, β, γ)**



Nucleonic Gauge



**Personal Dosimeter
(Analog and Digital)**



**Hand-held Radio-isotope
Identifier and Detector
(RIID)**



Leakage Radiation Survey for Various Devices

Envolta, as a AERB authorized entity provides leakage radiation survey for various devices like XRF, XRD etc. used for material identification and analysis purpose in industries, educational institutions and research laboratories .



As per AERB norms in a regular time basis leakage radiation survey is mandatory for such devices.



Our RSOs look after all those regulatory safety aspects and issue leakage radiation survey report according to the AERB standard.

Litigation Support in Nuclear Radiation Matter

Envolta Corporation care for Plaintiff(s), or Defendant(s) in Lawsuits that includes latest or historic property damage, radioactivity exposure, environmental pollution and bond dispute(s).

Our Litigation Support team makes sure that our client(s) are well advised and supported before the Hon'ble Ld. Court, are assisted in understanding the accusation, Laws, deep understanding of her/his current situation and assistance in developing the best consistent with the principles of good science.

Our Exceptionally Talented Legal Expertise:

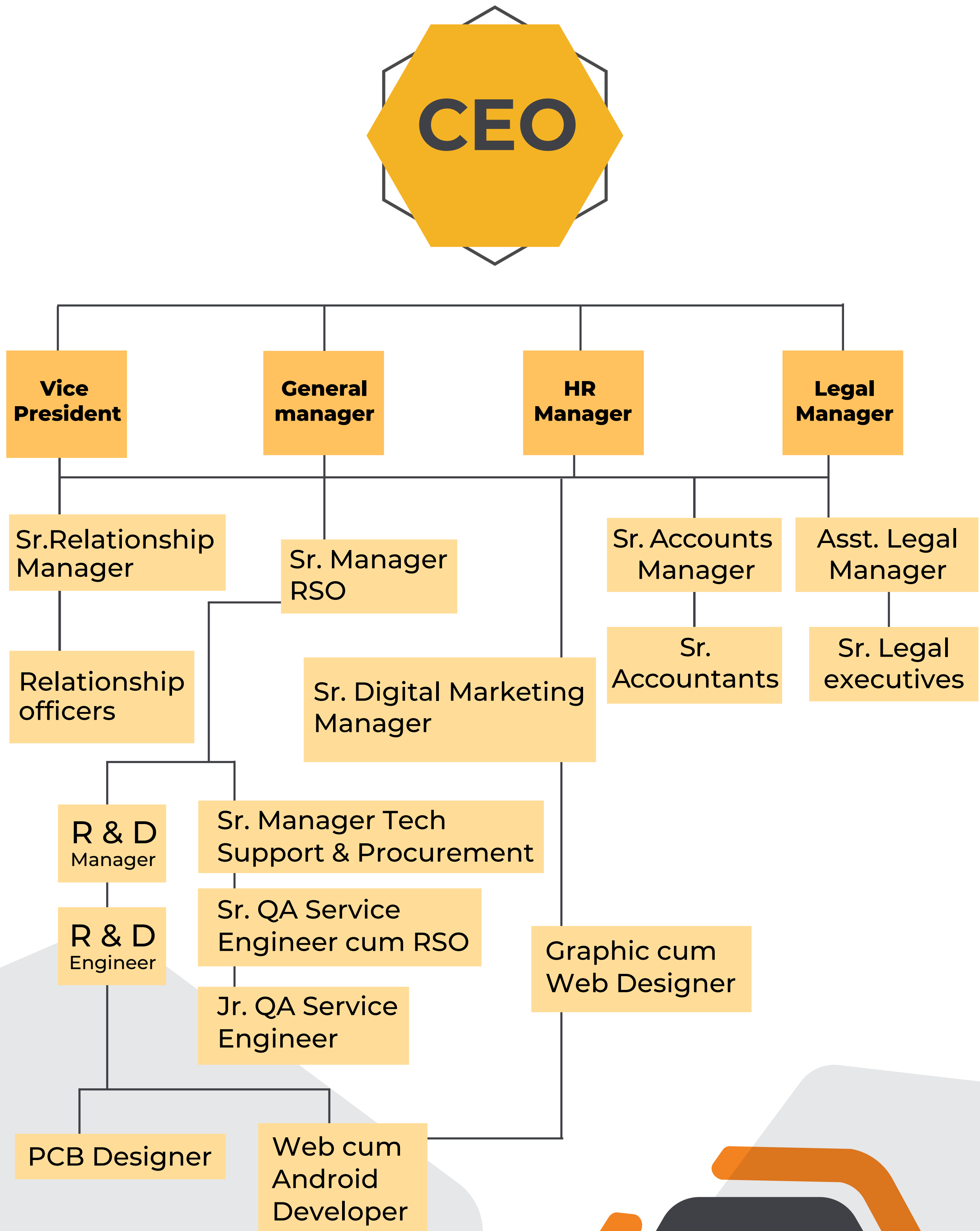
- Radiation doses, sources, risks and revelation
- Radiation protection norms, laws and standards
- Developing Professional Service Agreement(PSA)
- Peril communication
- Professional testimony, declarations, and response to a query



Organization Structure

Envolta Corporation LLP

"Formerly known as ENVOLTA INC."



Our Clients & Distributorship



Vidyasagar State
General Hospital

Geo Presence & Contact Info

Corporate Office

Kolkata, India

Envolta Corporation LLP "Formerly known as ENVOLTA INC."

Envolta Corporation INC

Envolta Renewal Energy Resources LLP

Address: PS Aviator Building, Suite No
208, Chinar Park, Kolkata-700136, West Bengal.

Website: www.envolta.in

Call: +91 8100162356 / +91 8100162357

Email: inquiry@envolta.in ; info@envolta.in



**Thank
You**