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Radioisotope products (products that have radiation presence) are primarily used for certain applications in hospitals and industries. After completing their lifetime, they are disposed as waste or scraps. Most expectedly, these radioisotoped waste/scraps get mixed with other scrap materials and are often supplied to the steel plants & large foundries as their input materials. When these scraps are melted with other scrap materials the resulting finished products is born with radioactive contamination.

Recently German custom authorities have found large amount of radioactive steel in transit and much of the contaminated steel has been reported to originate in India. This is indeed an alarming situation not for an individual steel mill but for the entire steel industry worldwide.

This concerning situation made all of us at AMBICA thinking that the one time reluctantly high expenditure towards the purchase of radiation checking instruments, almost 8 years ago, has today paid us back with dividends.

AMBICA has always been well aware of its responsibility of delivering the radiation-free products into the market, and to endorse this principle AMBICAâ€™s management had bought 2 radiation dosimeters almost eight years ago. Environmental Radiation Dosimeter is the instrument, which is used to check the radioactive contamination (photons / Gamma Radiation) in steel/alloys/ iron/samples/scrap.

Consciously, we at AMBICA always try to study and evaluate our systems and try to become better than the Best. With constant interactions with our European Buyers over these years, we had long ago implemented the system to detect the radioactive contamination in our raw materials mainly like Scrap.

In order to meet the further stringent requirement of radiation contaminations we have also upgraded our checking systems. AMBICA has recently installed RAD check meter, with external detector probe. It can measure faster and can detect much lower levels of contamination with a greater level of reliability.

AMBICA has also installed state of the art Gamma Ray Spectroscopy System with MCA for Radioactive Contamination Measurement by Nuclide Identification. This is a powerful tool used for exact quantification of nuclide, present in a contaminated sample. This system records gamma ray spectra of different isotopes present in the sample under test and spectra can be analysed to know the type of nuclide and also its contamination level. This system identifies and quantifies the contamination in Bq/gram & Bq/Kg.

AMBICA meticulously inspect all incoming scrap of any contamination. All the conforming materials are sent for melting and casting. After converting the scraps into Billets, around 3 samples from each heat / cast are again sent to laboratory for rechecking of radioactive contaminations and proper records are maintained. In addition to this, AMBICA has carefully selected its scrap suppliers from various countries worldwide who are fully equipped with the radioactive checking systems. This further ensures that of all material shipped to AMBICA is free from any radioactive contamination. This procedure is followed since last 10 years.

At AMBICA, we have a clear vision to safeguard the environment and support the communities in which it operates. AMBICA is proud to be one of the very first stainless steel mills in India to

successfully implement the environmental management system in line with the requirements of ISO 14001 in the year 2003. AMBICA being highly concerned regarding the safety of its people, has also obtained OHSAS 18001 certification.

AMBICAâ€™s products are used in a wide variety of applications and industrial sectors, e. g. chemical industry, oil and gas industry, shipbuilding industry, power plants, aircraft and aerospace industry. These user segments are the benchmark for quality. Every part is continually and stringently checked for quality and certified. AMBICAâ€™s steels are melted, cast and formed with the perfection and care.

It is our aim to offer individual solutions and professional advice to the customersâ€™ entire satisfaction. Come and see for yourself!!!!

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