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Neutron radiography: Research, application and recent developments in Bangladesh

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The 3 MW TRIGA Mark II research reactor at Atomic Energy Research Establishment (AERE) in Dhaka, Bangladesh, was commissioned in 1987. At the time, a neutron radiography facility for film was installed. In these days, the facility has been utilized to support the innovations of different laboratories inside and outside of Bangladesh Atomic Energy Commission. Various types of materials including hydrogel/super water absorbent, bandages made of collagen, polymer, conventional and unconventional bricks have been taken under investigation independently for quality control and water absorption characteristics study. The facility is providing support to investigate coral samples from St. Martin islands for the blue economy program of People's Republic of Bangladesh government. In addition to it, the facility is taking part into fabrication of high efficiency neutron shielding materials. Nevertheless the digital neutron radiography machine installation is still in progress.

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