

Water Radioactivity Contamination Monitoring System (Beta, Gamma)

Water Radioactivity Contamination Monitoring System (Beta, Gamma) [WRCMS (β , γ)] technology has been developed by Defence Laboratory, Jodhpur for measurements of radioactivity (due to beta & gamma radioisotopes) present in water and to be used with CBRN Water Purifications System Mk-II. The system has been designed & developed to measure contamination levels in feed & purified water during Nuclear & Radiological Emergency scenerio. It is a rugged portable system developed through rigorous design, fabrication & validation process. It is operable in Desert, Plains and High Altitude area with sub-zero temperature storage capability.

Salient Features are as follows:

- Portable & Dismountable, User Friendly, Suitable for vehicle also.
- Weight:65 kg (with packaging), 35 kg (without packaging)
- Detector: β - Plastic Scintillator, γ - NaI(Tl) Scintillator
- Identification of Gamma Radiosotopes
- Minimum Detectable Activity: Less than 100 Bq/L
- Audio & Video warning adjustment alarms
- Gross Activity Computation & Contamination Report Generation
- Ruggedized Control & Display Unit
- Operatiing Temperature:5⁰C to 55⁰C \pm 3⁰C
- EMI/EMC compatible as per MIL STD 461 E
- Environmentally rugged as per JSS 55555

Application:

- Nuclear Disaster Management
- Radiological Emergency Management
- Nuclear Reactor Off-site Management
- Peace time baseline radioactivity measurement



[WRCMS (β , γ)]

Interested Industries are requested to forward their Expression of Interest (EoI) to Director DL, Jodhpur with a copy of Director DIITM, DRDO HQ on following address:-

To,
Director
Defence Laboratory
Ratanada Palace
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Email : [director\[dot\]dl\[at\]gov\[dot\]in](mailto:director[dot]dl[at]gov[dot]in)

Copy to

Director
Directorate of Industry Interface & technology Management (DIITM)
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Industries are requested to enclose supporting document in Eol as per Appendix 'D' of DRDO Policy and Procedure for ToT available at <https://www.drdo.gov.in/sites/default/files/inline-files/drdo%20Policy%20%26%20Procedure%20%20for%20ToT.pdf> to Defence Laboratory, Jodhpur.