

35th IARP National Conference – 2025 (IARPNC2025)

30th January 2025 (Day 2) (16:00-17:00)

Abstract Id	Authors	Title
T5001	Mahendra R. More,	Development of Sealed D-T Neutron Generator for dosimetry and industrial applications
T5002	Padi Srinivas Reddy, Abhishek Kumar Pandey, R. Amudhu Ramesh Kumar, M. S. Gopikrishna, Falix Lawrence, K. A. Venkatesan, M. Geo Mathews , K. Rajan,	Implementation of a PoE Camera-based Visual Monitoring System in the Hot-Cells of a Reprocessing Plant
T5003	Padi Srinivas Reddy, R. Prakash, Abhishek Kumar Pandey, R. Amudhu Ramesh Kumar, M. S. Gopikrishna, M. Geo Mathews , K. Rajan,	Evaluation of Commercial Video Cameras for Hot-Cell Applications in Reprocessing Plant
T5005	Shaikh Aatef Kamal, Gupta Ashutosh, Kulkarni D.B., Sharma M.K., Chaudhury P.,	Development of Multichannel Coincidence Analyzer Module for Beta-Gamma Coincidence Counting
T5006	Gokul S, Hemapriya R, C S Sureka, Alok J Verma, Amol Bhagwat,	NuSuNon: A Novel Device for Radiation Measurement and its application
T5007	Shivam Agarwal, Aatef Kamal Shaikh, Amit Jain, M K Sharma, Probal Chaudhury,	Development of a Radiation Monitoring Dongle for an Android Smartphone
T5008	Ashutosh Gupta, Shivam Agarwal, Jisromal Jose, Sabysachi Pau, M K Sharma, Probal Chaudhury,	Development of Remote Controlled Mobile Radiation Monitoring System
T5009	Puneet Jindal, Jis Romal, Sagar Baraiya, Shivam Agarwal, Mk Sharma, Probal Chaudhury,	Development of software application for Radiological Emergency Response Laboratory
T5010	Amit Silswal, Biswajit Sadhu, S Anand, Jis Romal Jose, M K Sharma, P Chaudhury,	Learning Plastic Scintillator Spectra using VAE based Deep-Neural Architecture
T5013	Kirti, P K Shareef, S C Sharma, Pankaj Kumar, J P N Pandey,	Digitalization of radiological surveillance data at FF
T5014	Lalit K Vajpyee, Saurav, Ras Bihari Rakesh,	Theoretical estimation of efficiency for Ar-41 measurement in NaI(Tl) detector using GEANT4 code
T5015	Anirudh Chandra, Abinash Chakraborty,	A conceptual framework for an IoT based operation radiation protection programme
T5016	Deepa Anilkumar,	Estimation of Relative efficiency of a HPGe detector by simulation technique
T5017	Deepak K Akar, Minal Y Nadar, Raman Sehgal, P.D Sawant, Renju G. Thomas,	Offline analysis of digital waveform data from phoswich detector for improvement in actinide monitoring
T5020	Prakash Mandal,	Standardization of multi-cuvette LED fluorimeter for automated uranium analysis in bioassay samples
T5024	Dibyendu Rana,	A Portable Technique for Radium Body Burden Measurement Using AlphaGUARD

T5026	Vaishali M Thakur,	Design and Development of Neutron Flux Monitor
T5027	Shuchita Bahadur	Machine Learning Based Approach to Precondition Imbalanced Dataset for Nuclear Forensic Analysis.
T6002	Neeraja N, Prakash V,	Assessment of natural radioactivity in the coastal regions of Varkala beach, Kerala
T6003	M.Margret,	Parametric evaluation of matrix influences on detector response across broad range of photon energies
T6004	Rakesh P. T, Shanu Karmakar, Dipan Kundu, C. V. Srinivas, L Srivani,	Variation in dilution factor with the method of computing atmospheric stability
T6006	Dipan Kundu, P. T. Rakesh, C. V. Srinivas, L. Srivani,	Study of dispersion and deposition of radionuclides from Chernobyl nuclear accident
T6007	Shanu Karmakar, C.V. Srinivas, L. Srivani,	Sensitivity Analysis of Wet Deposition parameterizations in simulating Cs-137 Deposition during the Fukushima Nuclear Accident
T6008	Sowmya, Preethi, Kothai Parthasarathy, C.V. Srinivas,	Annual and Seasonal Variations in the Ambient Air Quality Parameters at Kalpakkam Nuclear Power plant site (2022-23)
T6009	Satyanarayan Bramha, N. Chitra, R. Sarangapani, R. Ravisankar, S. Chandrasekaran,	Evaluation of spatial distribution using the Kriging technique for natural radioactivity in soil samples of Changalpattu District, Tamil Nadu, India
T6010	Satyanarayan Bramha, R. Sarangapani, R. Ravisankar, S. Chandrasekaran,	Baseline Mapping and assessment of ambient gamma dose rate of Kanyakumari, a coastal district in Tamil Nadu, India.
T6011	Suja Subramanian, Satya Narayana Bramha, Kothai Parthasarathy, Ravisankar R, Chandrasekaran S,	Analysis of Natural Uranium in groundwater of Kanchipuram district of Tamilnadu, India
T6013	K R Sooryamol, Suresh Kumar, Anu David Raj, Sankar M,	Analyzing Soil Erosion Impact on Soil Quality using ¹³⁷ Cs Radioisotope in North-West Himalayas
T6014	R Deepu, M K Velayutham, L Srivani, C V Srinivas` ,	Preliminary observations of the newly installed Online Isotope Monitoring system at IGCAR, Kalpakkam
T6015	S. Panigrahi, M. Margret, S. Chandrasekaran, C. V. Srinivas, Vidya Sundararajan, Avaneesh Rai U. K., N. Karunakarn,	Site-specific soil-vegetable transfer factor (Fv) of radionuclides for vegetables at DAE site Kalpakkam
T6016	M.Margret,	Uncertainty modelling using Fuzzy based approach for gamma ray spectrometry measurements
T6017	Tasneem Mahyoub, S.N. Namitha, K. S. Pruthvi Rani, Mohamed Hidayath, M.S. Chandrashekara,	Uranium levels in groundwater samples in the environment of Mandya District, Karnataka, India and assessment of associated radiation risks to the population
T6018	K. S. Pruthvi Rani , S.N. Namitha, Tasneem Mahyoub, M.S. Chandrashekara,	Studies on ²¹⁰ Po in tobacco plants in Mysuru region, Karnataka, India and assessment of annual effective dose to smokers
T6019	P.Padma Savitri, B.Ramesh, J.Sudhakar, R.Balaram, Manoj Warriar, A.D.P.Rao,	Natural radioactivity in the beaches at Visakhapatnam, Northeast coast of Andhra Pradesh,India
T6020	P.Padma Savitri, B.Ramesh, J.Sudhakar, Manoj Warriar, A.D.P.Rao,	Impact of Tropical Cyclones in Bay of Bengal on BARC,Visakhapatnam during 2013-2024

T6021	Palani,	An Approach For Evaluation Of Hydro-Geochemical Properties In Ground Water From Chengalpattu District, Tamil Nadu, India
T6022	Sandeep P, Sukanta Maity, Suchismita Mishra, C. B. Dusane, P. Padma Savitri, Anilkumar S. Pillai,	Investigation on Aluminum doped hydroxyapatite for mitigating U migration from soil
T6024	D. P. Nankar, A K Patra, C P Joshi, Amol Chandrakar, I. V. Saradhi, A. Vinod Kumar,	Application of Peltier Cooling technology for collecting air moisture samples for studying environmental transport of 3H
T6026	Roopashree Shrivastava, Indumathi S Iyer, Anmol Batra, R. B. Oza,	Numerical Simulation of Sea and Land Breeze Circulation (SLBC) using WRF Model: Sensitivity to Parameterization Schemes and Validation with SODAR data
T6028	Sanu S Raj, Paras Kalra, S.J. Sartandel, Vandana Pulhani ,	Temporal variation of Cs and Sr Radioisotopes distribution in Mumbai Harbour Bay
T6029	Sugandhi Suresh, Neha P Jadhav, Sangeeta Sartandel, Joshi V M, Vandana A Pulhani,	Study of natural radioactivity in Manufactured sand (M-sand)
T6030	Y P Gautam, A K Sharma, Vineet Kumar, Sanjeev Kumar, D Kumar, J Kumar, I V Saradhi, A Vinod Kumar,	Distribution of 7Be Activity in Air and Mean Residence time at Narora Site
T6031	Sanjeev Kumar, Y P Gautam, Vineet Kumar, V Kumar, J Kumar, A K Sharma, D Kumar, B Singh, I V Saradhu,	Seasonal variation of gross beta and alpha activity in air particulate matter at NAPS Narora
T6032	Tejpal Menaria, S N Tiwari, I.V. Saradhi,	Estimation of transfer factor of Cs-137 and K-40 from soil to plant in Rawatbhata environment
T6034	Shashank S Saindane,	Long Range(LoRA) based Radiation Early Warning System for Nuclear Facilities
T6035	Amol Chandrakar, A. K. Patra, C. P. Joshi, I. V. Saradhi,	Studies on the measurement of 14C in biota at Kakrapar Gujarat site
T6036	Usha Pujala, R. Sarangapani, R. Ramar, S. Chandrasekaran,	Charged aerosol dynamics behaviour for improving the fast reactor safety assessment during severe accident: Modelling aspects
T6037	S. S. Wagh, Shilpa Jain, A. K. Patra, I. V. Saradhi,	Ingestion dose from 40K due to the consumption of some dietary matrices around Kakrapar
T6038	Susheela Sivakumar, Clinton S. A. Fernandes, Sanjay Singh, Sureshkumar M. K.,	A Comparison of Methods for Alpha Activity Estimation in Low Level Liquid Effluents with High Salt Content
T6039	Mukesh Chand Meena, Rajpal Gill, M K Meena, S N Tiwari, I V Saradhi,	Performance of sonic anemometer in wind data measurements at Rawatbhata Site
T6040	Mukesh Jha, A. K. Patra, C. P. Joshi, I. V. Saradhi, R. K. Sah,	Evaluation of dilution factor at public utilization point of Moticher lake at Kakrapar Gujarat Site
T6041	Vedesh Krishnacharya Varakhedkar,	Assessment of Probable Maximum Precipitation Using Gumbel Distribution for the Coastal Site Tarapur, India
T6042	Sarjan Singh,	Heavy Metals in River Sediments near a Uranium Mining Area in East Singhbhum, India
T6043	Pradyumna Lenka, V.K. Thakur, M.R. Dhumale, S.V. Bara, C.G. Sumesh, G.P. Verma, S. Chinnaesakki, Aditi C. Patra,	Natural Radioactivity Levels in Local Foodstuff around a Uranium Mineralised Region
T6045	Ian Jaison John1, Jaison T J, Simanchal Rath, Suneesh P V And S K Jha ,	Radiation Dose Rate & Monazite content mapping along coastal Kollam, Kerala

T6047	S N 44, Balram Meena, S K Goyal, A K Jain, Mohit Sisodia, I V Saradhi,	Statistical trends of environmental tritium around RAPS Rawatbhata(2000-2020)
T6048	S K Goyal, S N Tiwari, A K Gocher, I V Saradhi,	Assessment of Radioactivity and associated radiation hazard parameters in soil samples of Rawatbhata Environment
T6049	Rajpal Gill, Balram Meena, S.N. Tiwari, I V Saradhi,	Site specific Carbon content and C-14 activity in mango leaves around Rawatbhata Site
T6050	Mohit Sisodia, A. K. Gocher, S. K. Goyal, S N Tiwari, I V Saradhi,	Assessment of performance of ESL RAPS in IAEA proficiency test
T6051	R C Bhangare, P Y Ajmal, M Tiwari, T D Rathod, S K Sahu, V Pulhani,	Characterisation of Major and Trace Elements in Soil Samples from the State of Gujrat
T6052	S. K. Sahoo, V.N. Jha, Rajesh Kumar, A.C. Patra,	Variation of Uranium Content in Groundwater in Principal Aquifer Systems of India
T6053	S. K. Sahoo, A. C. Patra,	Role of Nuclear Energy in Clean Energy Transition – A Scientific Perspective
T6054	T Jesan, Anitha Manu, K. S. Rao, S. Ramkumar, I.V. Saradhi,	Natural Radioactivity Levels in Materials Used at Thermal Power Plant and Steel Plant
T6055	Rajesh Kumar, S. K. Sahoo, G.P. Verma, V.N. Jha, A.C. Patra,	Variation of ²²² Rn and ambient gamma radiation levels around Rohil uranium mining site, Rajasthan and public dose assessment
T6056	A.M. Gupta, S.K. Sahoo, A.C. Patra,	Quality control in measurement of NORMs in geological and environmental metrics using radiometric techniques
T6057	V. N. Jha, Rajesh Kumar, S. K. Sahoo, R.L. Patnaik, A.C. Patra,	Radon (²²² Rn) variability at a workplace in the uranium mineralized area of Singhbhum, Jharkhand, India
T6058	Anitha Manu, D.Kannamani, S.S.N.Somasundaram, T Jesan, I.V. Saradhi,	Estimation of ²¹⁰ Po activity in Water hyacinth and Fish species in Thamirabarani River of Tamil Nadu
T6060	K.S. Rao, S. Ramkumar, T Jesan, Anitha Manu, I.V. Saradhi,	Natural Radioactivity and Dose from Building Materials around Kalpakkam
T6061	K.S. Rao, T Jesan, I.V.Saradhi,	Natural Radioactivity and Radiation Hazards Index Levels in Agricultural Soil around Kalpakkam
T6062	Manish Kumar Singh, R. L. Patnaik, D. Rana, N. K. Sethy, V. N. Jha, A. C. Patra,	Radiological assessment around the tailings management facility at Jaduguda, India
T6063	C. P. Joshi, Ak Patra, A. Chandrakar, I. V. Saradhi,	Determination of site specific Kd of ⁶³ Ni at Kakrapar Gujarat Site in simulated conditions
T6065	Jayasudha Prabhu, B Preetha, B Vijayakumar, I V Saradhi,	Study of diurnal variation of wind pattern at Kudankulam coastal site
T6066	B S Selvi, T Selvarani, B Vijayakumar, I V Saradhi,	Estimation of ¹³⁷ Cs ecological half life in marine fish at Kudankulam, Tamil Nadu
T6067	T Selvarani, B Vijayakumar, I V Saradhi,	Estimation of ¹⁴ C dose to the public around Kudankulam
T6068	Nagraj Channappa, Basavaraj Rachappa Kerur, Jayashri Mutugar,	Radiation Studies in Depth Profile Soil Sample of Bidar District, Karnataka, India.
T6069	Rupali C.K.Kamat, Vikram M.Joshi, Vandana A.Pulhani,	Evaluation of ²¹⁰ Po Levels in Marine Biota from Mumbai Harbour Bay and Associated Effective Dose from Seafood Consumption
T6070	T K Reji, Amol Chandrakar, A K Patra, Sanyam Jain, M S Vishnu, N .Karukakara, I V Saradhi,	Experimental determination of water equivalent factor of biota samples of Kaiga environment

T6071	Amrit Pal Singh, K. Vishwa Prasad, V. V. Mahesh Kumar, Komal Kapoor,	Uranium Analysis in Water: Quality Assurance through IAEA-TERC Proficiency Test
T6073	Soumen Sinha, Arun Aravind, H. Seshadri, B. Sapra	Radiological Impact Assessment Of A Postulated Accident With Iodine Release In An Inland NPP Site
T6075	N.Sowmya, H.C.Manjuantha, P.S.Damodara Gupta, K.N. Sridhar, L. Reddi Rani,	Decay chains of ²³³ Th and ²³⁴ Th
T6077	R M Joshi, M S Vishnu, Sanyam Jain, T K Reji, J P James, S S Wagh, A K Patra, I V Saradhi,	Assessment of natural radioactivity levels in soil samples at Kaiga region after flooding during August 2019
T6078	S Chandrasekaran,	Impact of heavy metals in beach sand along east coast region of India on dose assessment: Hybrid modelling approach
T6079	Manish K Mishra, D G Mishra, Vandana Pulhani,	Optimization of Inverse Distance Weighted (IDW) Interpolation Method in GIS for Terrestrial Radiation Measurements
T6080	Mayank, S. Anand, Ramakrishna V, J. P. N Pandey	Dispersion Dynamics of Radioactive Aerosols during Off-Normal Conditions in Ventilated Control Volume
T6081	Pratibha, A.Baburajan And I.V. Saradhi	Variation in CEC with different fractions of sediment in Tarapur
T6082	Abhigyan, Ranjan Prakash, Kumaraswamy V, B. Naresh, Aditi C. Patra	Feasibility study of bricks made by using uranium mill tailings from Tummalapalle
T6083	Nagaraju J And Eraiah B	Influence of gamma irradiation on electrical and elastic properties of lithium aluminum borate glasses doped with Terbium trioxide
T6084	Chandrashekara K., Nagaraja K. P., Gunakara Surathkal, Somashekarappa H. M.	Absorption of Natural Radionuclides by Medicinal Plant
T6085	Bharath, Arya Krishnan K, Veerendra D, G. S. Salunke, Jayaram U K and Karunakara N	An update on Carbon-14 release rate from Kaiga generating station
T6086	K. Sharmila, Vinayak Anand Kamat, K. Swaroop, and Somashekarappa H M	Thermoluminescence properties of Iron doped TiO ₂ nanoparticles synthesized using co-precipitation method for gamma dosimetry
T6087	Sudeep Kumara K., Yashodhara I, and Karunakara N.	Spatial distribution of ¹³⁷ Cs in the Western Ghats ecosystem of Karnataka, India
T6089	I. Yashodhara, K. Sudeep Kumara, K. Mahendra and N. Karunakar	Activity concentrations of ²²⁶ Ra, ²³² Th and ⁴⁰ K in the vegetables and edible grains of Gogi region of Northern Karnataka, India
T6090	Nagaraja N, Shiva H B, Madhura N Talwar, Asha P Shirni, Gnana Prakash A P, Pushpa N	Thermoluminescence Studies of SrO-CaO Nanocomposite for Dosimetry Applications
T6091	Shiva H B, Karunakara N and Gnana Prakash A P	Thermoluminescence Study of Co-60 Gamma Irradiated KMgCl ₃ Nanomaterial for Radiation Dosimetry
T6092	Vaishakh Saliyan, Avaneesh Rai U K, Bharath, Veerendra D, Jayaram U K and Karunakara N	Natural and anthropogenic radioactivity in the river sediments in the vicinity of Kaiga NPP

T6094	R.U.K, Avaneesh, N. Karunakara, P.M. Ravi, N.S. Magesh, T.R. Reshmi, Pavitra V K, Pankaj K.	Soil-to-rice transfer factors (Fv) values for stable elements for the Tropical Monsoonal Climate Region of the West Coast of India
T6095	Avin Kumar, M A R Iyengar, H M Somashekarappa, and Karunakara N	Radioactive Waste Management Techniques: Challenges and Innovations
T6096	T.S. Ghodke, S. Paradkar, V. B. Kadwad, N Karunakara And K. B. Shenoy	Radiolabelling of anti-C-reactive protein antibodies for Immunoradiometric assay development
T7001	G.L.N.Padmavathi,	Industrial Hygiene and Safety Practices in Radiation Facilities
T7002	Nitin V Choughule,	Application of Hazard Operability study (HAZOP) in Radiological Operation
T7004	I.Vijayalakshmi, K.S. Briteena, B. Arun, N.Chitra, Kothai Parathasarathy,	Optimization of Detectors for Gross beta activity Estimation
T7005	B.S.K. Lavanya, S.N. Namitha, M.S. Chandrashekar, K.M. Nagaraju, Tasneem Mahyoub,	Distribution of natural radioactive elements in soil and building material samples of Chamarajanagar District, India and associated radiation dose to the population
T7006	S K Nayak, J P N Pandey,	Regulatory Requirement of Boreholes for ground water surveillance around a Radiological Facility and their design basis
T7008	Munish Kumar, Ankur Chauhan,	Conceptual divergence amongst TLV & Effective dose based philosophies for Uranium
T7009	Amit Kumar Tripathi, Vivek Kaushik,	An Approach towards Absolute measure of Prudence in Radiation Safety Philosophy using Surprise Theory Framework
T7010	M V R Narsaiah,	Radiological Emergency Preparedness for Prevention of Malicious Acts during Major Public Events
T7011	Jayant Krishan, S. Anand, Tanmay Sarkar, B. Sadhu,	Hazard Categorization for a Beryllium handling Facility
T8002	Ganeshprasad T Kalgai, M. M. Prakash, Y. Narayana, Kaliprasad C S,	Measurement of indoor Radon concentration in the environment of Chikkaballapura district, Karnataka, India
T8003	N.Chitra, K.S. Briteena, S.N. Bramha, Kothai Parthasarathy,	Study of gamma background fluctuations and its associated uncertainty in NORM activity estimation using a shielded HPGe detector.
T8006	B S Selvi, T Selvarani, B Vijayakumar, I V Saradhi,	Estimation of natural radioactivity in building construction materials around Kudankulam, Tamil Nadu
T8007	K.Sreekumar,	Radiological Surveillance of Enayam and Midalam Villages of Kanyakumari, INDIA
T8008	Samim Molla, V. S. Srivastava, Ranjit Kumar, A. C. Patra,	Diurnal variation of ²²² Rn and its progeny levels around a uranium mining and milling site at Turamdih, Jharkhand