

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511106990 A

(19) INDIA

(22) Date of filing of Application :05/11/2025

(43) Publication Date : 26/12/2025

(54) Title of the invention : AN IoT-BASED PLATFORM FOR MONITORING ENVIRONMENTAL POLLUTION LEVELS

(51) International classification	:H04W 8/18, H04N 21/258, H04W 8/20, G06F 3/048, G06F 18/10	(71) Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India (72) Name of Inventor : 1)Dr. DEEPTI 2)GARIMA JAIN
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to an IoT-based platform for monitoring environmental pollution levels. The system comprises distributed sensors (101) for detecting air, water, and noise pollution, communication modules (102) for transmitting data, cloud-based analytics (103) for processing and prediction, and user interfaces (104) for visualization. The platform ensures real-time, accurate, and scalable monitoring, supported by AI-driven predictive insights. Experimental validation confirmed its reliability and effectiveness in identifying pollution hotspots, making it a valuable tool for governments, industries, and communities.

No. of Pages : 14 No. of Claims : 5