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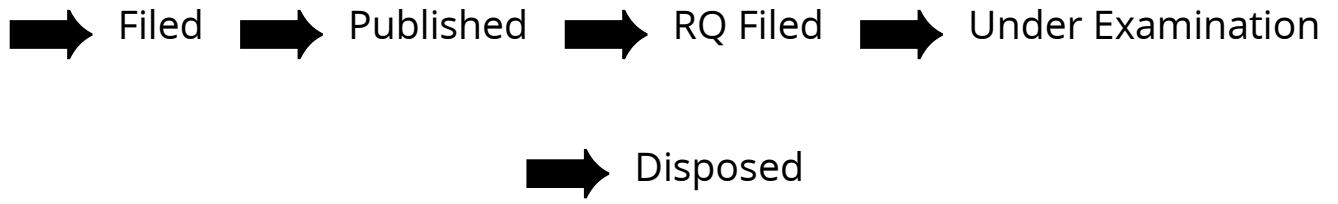


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Application Details	
APPLICATION NUMBER	202531132472
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/12/2025
APPLICANT NAME	INSTITUTE OF ENGINEERING & MANAGEMENT KOLKATA (School of the University of Engineering and Management, Kolkata)
TITLE OF INVENTION	Next-Gen Pest Management: Smart Rover with AI-Based Adaptive Sound Emission
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	mhc123ster@gmail.com
ADDITIONAL-EMAIL (As Per Record)	mhcster123@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/04/2026

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

			View Documents
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In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

“FORM 1 THE PATENTS ACT 1970 (39 OF 1970) and THE PATENT RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7,54 and 135 and sub-rule (1) of rule 20)				(FOR OFFICE USE ONLY)	
			Application No.		
			Filing date:		
			Amount of Fee paid:		
			CBR No:		
			Signature:		
1.APPLICANT’S REFERENCE/IDENTIFICATION NO.(AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]					
Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition()	Divisional ()	Patent of Addition ()	Divisional()	Patent of Addition ()
3A. APPLICANT(S)					
Name in Full	Nationality	Country of residence	Address of the Applicant		
INSTITUTE OF ENGINEERING & MANAGEMENT KOLKATA (School of the University of Engineering and Management, Kolkata)	Indian	India	House No.	School of the University of Engineering and Management, Kolkata Electronics Complex	
			Street	Sector – V,	
			City	Salt Lake , Kolkata	
			State	West Bengal	
			Country	India	
			Pin code	700 091	

3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]				
Natural Person ()		Other than Natural Person		
		Small Entity ()	Start up ()	Others (✓)
4. INVENTOR(S) [Please tick (✓) at the appropriate category]				
Are all the inventor (s)		Yes ()	No (✓)	
Same as the applicant(s) named above?				
If “No”, furnish the details of the inventor(s) N/A				
Name in full	Nationality	Country of Residence	Address of the Inventor	
1. Mr. Riddhiraj Chanda	Indian	India	House No.	Department of Electronics and Communication Engineering, University of Engineering And Management,
			Street	New Town, University Area, Plot No. III, B/5, New Town Road, Action Area III,
			City	Newtown, New Town,
			State	West Bengal
			Country	India
			Pin code	700160.
2. Mr. Ritam Das	Indian	India	House No.	Department of Electronics and Communication Engineering, University of Engineering And Management,

			Street	New Town, University Area, Plot No. III, B/5, New Town Road, Action Area III,
			City	Newtown, New Town,
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			Country	India
			Pin code	700160.
3. Mr. Monodip Roy	Indian	India	House No.	Department of Electronics and Communication Engineering, University of Engineering And Management,
			Street	New Town, University Area, Plot No. III, B/5, New Town Road, Action Area III,
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			State	West Bengal
			Country	India
			Pin code	700160.
4. Md.Ayan Akhtar Khan	Indian	India	House No.	Department of Electronics and Communication Engineering, University of Engineering And Management,
			Street	New Town, University Area, Plot No. III, B/5, New Town Road, Action Area III,
			City	Newtown,
			State	West Bengal
			Country	India
			Pin code	700160.
5. Dr. Sandip Bhattacharya	Indian	India	House No.	Department of Electronics and Communication Engineering, SR University,
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			State	Telangana,

			Country	India
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6. Mr. Nagendar Yamsani	Indian	India	House No.	Department of Computer Science and Engineering, SR university,
			Street	Anantha Sagar,
			City	Warangal,
			State	Telangana,
			Country	India
			Pin code	506371
7. Dr. Sukanta Ghosh	Indian	India	House No.	School of Computer Science and Engineering (SCOPE) ,VIT University,
			Street	Vellore, Vellore Campus, Tiruvalam Rd,
			City	Katpadi, Vellore,
			State	Tamil Nadu
			Country	India
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8. Dr.Abir Chatterjee	Indian	India	House No.	Department of Electronics and Communication Engineering, University of Engineering And Management,
			Street	New Town, University Area, Plot No. III, B/5, New Town Road, Action Area III,
			City	Newtown,
			State	West Bengal
			Country	India
			Pin code	700160.
9. Dr. Subhajit Das	Indian	India	House No.	Department of Electronics and Communication Engineering, University of Engineering And Management,

			Street	New Town, University Area, Plot No. III, B/5, New Town Road, Action Area III,		
			City	Newtown,		
			State	West Bengal		
			Country	India		
			Pin code	700160.		
5. TITLE OF THE INVENTION: “Next-Gen Pest Management: Smart Rover with AI-Based Adaptive Sound Emission”						
6. AUTHORISED REGISTERED PATENT AGENT(S)		IN/ PA No.	502			
		Name	Dr. Mahuya Hom Choudhury			
		Mobile No.	9007780898/8017888548			
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA		Name	Dr. Mahuya Hom Choudhury			
		Postal Address	98, Sanjib Chatterjee Road, Naihati, 24 PGS (N); Pin-743165			
		Telephone no.	23211342/25812558/26723841			
		Mobile No.	9007780898/8017888548			
		Fax No.				
		E-mail ID	mhc123ster@gmail.com mhcster123@gmail.com			
8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION : N/A						
Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention country)	
9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT):N/A						
International application number		International filing date				
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION:N/A						
Original (first) application No.		Date of filing of original (first) application				

11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT : N/A	
Main application/patent No.	Date of filing of main application
12. DECLARATIONS	
(i) Declaration by the inventor(s) – (In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period). I/We, the above named inventor(s) is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is /are my/our assignee or legal representative. <i>Riddhirajchanda</i> 1. Mr. Riddhiraj Chanda <i>Ritam Das.</i> 2. Mr. Ritam Das <i>Monodip Roy</i> 3. Monodip Roy <i>Md. Ayan Akhtar Khan</i> 4. Md.Ayan Akhtar Khan	

Sandip Bhattacharya

5. Dr. Sandip Bhattacharya

Nagendar Yamsani

6. Mr. Nagendar Yamsani

Sukanta Ghosh

7. Dr. Sukanta Ghosh

Abir Chatterjee

8. Dr. Abir Chatterjee

Subhajit Das

9. Dr. Subhajit Das

(ii) Declaration by the applicant(s) in the convention country : n/a

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date

(b) Signature(s)

(c) Name(s) of the signatory

(iii) Declaration by the applicant(s)

I/We the applicant(s) hereby declare(s) that:-

- ☐ √ I am/ We are in possession of the above-mentioned invention.
- ☐ √ The provisional/complete specification relating to the invention is fixed with this application.
- ☐ X The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
- ☐ √ There is no lawful ground of objection(s) to the grant of the patent to me/us.
- ☐ √ I am/we are the true & first inventor(s).
- ☐ I am/we are the assignee or legal representative of true & first inventor(s).
- ☐ The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s).
- ☐ X I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.
- ☐ X My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.
- ☐ X The application is divided out of my/our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.
- X The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/ Provisional specification)#	No. of pages-10	Rs.1600/- pages	
No. of Claim(s)	No. of claims-10 and No. of pages-4		
Abstract	No. of pages- 1		
No. of Drawing(s)	No. of drawings- 5 and No. of pages-4		

Form 1 (A)

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4) , the number of such pages filed with the provisional specification are required to be mentioned here.

(b) Complete specification (in connection with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies),

(c) Sequence listing in electronic form

(d) Drawings (in conformation with the International application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).

(e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.

(f) Translation of priority documents/Specification/International Search Report/International Preliminary Report on Patentability.

(g) Statement and Undertaking on Form 3

(h) Declaration on Inventorship on Form 5

(i) Power of Authority

(j)

Total fee1600/-..... in Cash/Banker's Cheque/Bank Draft bearing No.....
Date..... on**Bank.**

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 26th day of December, 2025

Signature : 
Name : MAHUYA HOM CHOUDHURY
IN/PA502

To,
The Controller of Patents
The Patent Office, atKolkata.....