

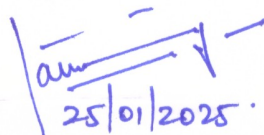
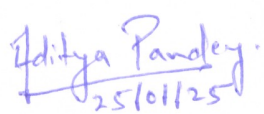
FORM 1 THE PATENTS ACT, 1970 (39 of 1970) & THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)				(FOR OFFICE USE ONLY)	
				Application No.	
				Filing date:	
				Amount of Fee paid:	
				CBR No:	
				Signature:	
1. APPLICANT'S REFERENCE/ IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION					
Ordinary (☒)					
3A. APPLICANT(S)					
Name in Full	Nationality	Country of Residence	Address of the Applicant		
TECHNOLOGY INNOVATION IN EXPLORATION & MINING FOUNDATION	Indian	India	House No.	3 rd Floor	
			Street	i2h Tower (Institute Innovation Hub), IIT(ISM) Dhanbad	
			City	Dhanbad	
			State	Jharkhand	
			Country	India	
			Pin code	826004	
3B. CATEGORY OF APPLICANT (Please tick ☒ at the appropriate category]					
Other than Natural Person (☒)					
4. INVENTOR(S) (Please tick (☒) at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above? Yes () No (☒)					
If "No", furnish the details of the inventor(s)					
Name in Full	Nationality	Country of Residence	Address of the Inventor		
TANMAY DASGUPTA	IN	IN	House No.	DEPARTMENT OF MINING ENGINEERING,	
			Street	BIT SINDRI-DHANBAD, P.O. SINDRI INSTITUTE,	
			City	SINDRI DHANBAD	
			State	JHARKHAND	
			Country	INDIA	
			Pin code	828123	

DEVI PRASAD MISHRA	IN	IN	House No.	DEPARTMENT OF MINING ENGINEERING,
			Street	INDIAN INSTITUTE OF TECHNOLOGY, ISM - DHANBAD
			City	DHANBAD
			State	JHARKHAND
			Country	INDIA
			Pin code	826004
ADITYA PANDEY	IN	IN	House No.	DEPARTMENT OF MINING ENGINEERING,
			Street	BIT SINDRI-DHANBAD, P.O. SINDRI INSTITUTE,
			City	SINDRI DHANBAD
			State	JHARKHAND
			Country	INDIA
			Pin code	828123
BIBHATSU KUIRI	IN	IN	House No.	DEPARTMENT OF PHYSICS, SIDHO-KANHO –BIRSHA UNIVERSITY,
			Street	DIST-PURULIA, P.O.- SAINIK SCHOOL, RANCHI ROAD,
			City	PURULIA
			State	WEST BENGAL
			Country	India
			Pin code	723104

5. TITLE OF THE INVENTION:		
AN APPARATUS FOR MULTIPARAMETER COAL SPONTANEOUS COMBUSTION & QUASI-STEADY STATE ASSESSMENT AND METHOD THEREOF		
6. AUTHORISED REGISTERED PATENT AGENT(S)	IN/PA No.	IN/PA-2399
	Name	PATEL NISHIDHKUMAR MANILAL
	Mobile No.	+91 9722474144
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	SINGHANIA & CO. LLP
	Postal Address	502, Baani Address 1, Sector 56, Golf Course Road, Gurugram – 122011, India
	Mobile No.	+91 9722474144
	E-mail ID	ipr@singhania.com
8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION		
NA		NA
9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)		

International application number	International filing date
NA	NA
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION	
Original (first) application No.	Date of filing of original (first) application
NA	NA
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT	
Main application/patent No.	Date of filing of main application
NA	NA

International application number	International filing date
NA	NA
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION	
Original (first) application No.	Date of filing of original (first) application
NA	NA
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT	
Main application/patent No.	Date of filing of main application
NA	NA

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. Date: Signature(s):  Name(s): TANMAY DASGUPTA Date: Signature(s):  Name(s): DEVI PRASAD MISHRA Date: Signature(s):  Name(s): ADITYA PANDEY BIBHATSU KUIRI	
(ii) Declaration by the applicant(s) in the convention country (in case the applicant in India is different than the applicant in the convention country) NOT APPLICABLE	
(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 filed with this application. ✗ 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).	

INPA#202431013637

NA	NA
9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)	
International application number	International filing date
NA	NA
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION	
Original (first) application No.	Date of filing of original (first) application
NA	NA
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT	
Main application/patent No.	Date of filing of main application
NA	NA

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. Date: Signature(s): Name(s): TANMAY DASGUPTA DEVI PRASAD MISHRA Date: Signature(s): <i>Bibhatsu Kuiri</i> 27/01/25 Name(s): ADITYA PANDEY BIBHATSU KUIRI	
(ii) Declaration by the applicant(s) in the convention country (in case the applicant in India is different than the applicant in the convention country) NOT APPLICABLE	
(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 filed with this application. ✗ 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.	

12. DECLARATIONS**(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 filed with this application.
- ✗ 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).
- ✗ 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.
- ✗ My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.
- ✗ 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.
- ✗ 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
<u>COMPLETE</u> specification [#]	No. of pages	29		
No. of Claim(s)	No. of claims	12		
	No. of pages	5		
Abstract	No. of pages	1		
No. of Drawing(s)	No. of drawings	5		
	No. of pages	5		

[#] 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) Form-1

(c) Form-5

(d) Form-26

(e) Form-9

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.

INPA#202431013637

Total fee of Rs. is already paid via Online Bank Transfer bearing
transaction ID dated

Date: 10.02.25

Suraj Prakash

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Suraj Prakash
CEO

Technology Innovation in Exploration & Mining Foundation

To,
The Controller of Patents
The Patent Office



FORM 18
THE PATENTS ACT, 1970
(39 OF 1970)
&
THE PATENTS RULES, 2003
REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT
[See section 11B and rule 20(4)(ii), 24B(1)(i)]

1. APPLICANT

- (a) Name: TECHNOLOGY INNOVATION IN EXPLORATION & MINING FOUNDATION
- (b) Nationality: IN
- (c) Address: 3rd Floor, i2h Tower (Institute Innovation Hub), IIT(ISM) Dhanbad, Jharkhand - 826004
- (d) Date of publication of the application under section 11A: 22/11/2024

2. Statement in case of request for examination made by the applicant

We hereby request that our application for patent no. 202431013637 filed on 28/10/2017 for the invention titled AN APPARATUS FOR MULTIPARAMETER COAL SPONTANEOUS COMBUSTION & QUASI-STEADY STATE ASSESSMENT AND METHOD THEREOF shall be examined under sections 12 and 13 of the Act.

3. ADDRESS FOR SERVICE

SINGHANIA & CO. LLP
502, Baani Address 1, Sector 56, Golf Course Road, Gurugram – 122011, India
Email: ipr@singhania.com

Dated this February 21, 2025.

Nishidh

.....
Nishidh Patel
Agent for the Applicant
Reg. Patent Agent - IN/PA 2399

To,
The Controller of Patents
The Patent Office

Signature Not Verified
Digitally Signed.
Name: PATEL NISHIDHKUMAR
MANILAL
Date: 21-Feb-2025 18:23:50
Reason: Patent Filing