


**3.4.3 Number of Patents published/awarded during the last five years (10)**

**3.4.3.1: Total number of Patents published/awarded year wise during the last five years**

Name of the Patenter	Patent Number	Title of the patent	Year of Award/publication of patent	
Jayanta Pal	202011006936	RWO-MOBILE CACHE MEMORY: ADVANCED TECHNIQUES READ AND WRITE OPERATIONS ON MOBILE CACHE MEMORY.	2020	
Shaon Ray Chaudhuri	201731003023	Bio-fertilizer production from bacterial consortium	2020	
Jayanta Pal	2020102068	LSM- Quantum Computing: LARGE DATABASES STORE INTO A VERY SMALL MEMORY USING QUANTUM COMPUTING AND AI-BASED PROGRAMMING	2020	
<b>2019-20</b>	<b>2018-19</b>	<b>2017-18</b>	<b>2016-17</b>	<b>2015-16</b>
<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  
 (Dr. K.B. Jamatia)  
 Registrar (I/C)  
 Tripura University  
 Suryamaninagar



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India



Application Details	
APPLICATION NUMBER	202011006936
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/02/2020
APPLICANT NAME	1 . PROF.(DR.) PAWAN KUMAR BHARTI (VICE CHANCELLOR SHRI VENKATESHWARA UNIVERSITY) 2 . DR. RAKESH KUMAR YADAV (DIRECTOR- KCCITM) 3 . DR. NEERAJ KUMAR MISRA (ASSOCIATE PROFESSOR) 4 . DR ANIL KUMAR SAHU (ASSOCIATE PROFESSOR) 5 . JAYANTA PAL (ASSISTANT PROFESSOR) 6 . DR.C.M.JOSHI (DIRECTOR) 7 . PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER- GEH RESEARCH LLP)
TITLE OF INVENTION	RWO-MOBILE CACHE MEMORY: ADVANCED TECHNIQUES READ AND WRITE OPERATIONS ON MOBILE CACHE MEMORY.
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	dr.bksarkar2003@yahoo.in
ADDITIONAL-EMAIL (As Per Record)	vc@svu.edu.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	28/02/2020

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tripura University  
Suryamaninagar


<b>FORM 1</b> THE PATENTS ACT 1970(39 of 1970) & The Patents Rules, 2003 APPLICATION FOR GRANT OF PATENT (See sections 7, 54 & 135 and rule 20(1))	<b><u>(FOR OFFICE USE ONLY)</u></b> Application No: Filing Date Amount of Fees Paid: CBR NO: Signature:
1. APPLICANTS REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)	

**2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]**

<b>Ordinary (✓)</b>		Convention ( )		PCT-NP ( )	
Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )

**3A. APPLICANT(S):**

Name	Country of Residence	Nationality	Address
PROF.(DR.) PAWAN KUMAR BHARTI (VICE CHANCELLOR SHRI VENKATESHWARA UNIVERSITY)	INDIA	AN INDIAN NATIONAL	A-905, GAUR ATULYAM SOCIETY OMICRON-1, GREATER NOIDA,,UP-201310, INDIA E-MAIL: padutt@gmail.com E-mail: vc@svu.edu.in Pan no: AGZPB8342B
DR. RAKESH KUMAR YADAV ( DIRECTOR-KCCITM)	INDIA	AN INDIAN NATIONAL	N-471, JALWAYU VIHAR, GREATER NOIDA, UP-201306, INDIA. E-MAIL: er.rakeshyadav@gmail.com PAN NO: ABVPY1350K
DR. NEERAJ KUMAR MISRA (ASSOCIATE PROFESSOR)	INDIA	AN INDIAN NATIONAL	Office Address :BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY (BIET), HYDERABAD-501510, TELANGANA, INDIA. Residence Address: 538KHA/391 DEEN DAYAL NAGAR KHADRA SITAPUR ROAD LUCKNOW 226020, UTTAR PRADESH, INDIA. Email ID: neeraj.mishra3@gmail.com
DR ANIL KUMAR SAHU (ASSOCIATE PROFESSOR)	INDIA	AN INDIAN NATIONAL	Office Address : BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY (BIET), HYDERABAD-501510, TELANGANA, INDIA. Residence Address :HIG-I/43,NIRMALA KUNJ, OLD BORSI ,M.P.H.B BORSI COLONY DURG , CHHATISGARH-491001, INDIA. Email ID: anilsahu82@gmail.com
JAYANTA PAL (ASSISTANT PROFESSOR )	INDIA	AN INDIAN NATIONAL	Office Address: - DEPARTMENT OF INFORMATION TECHNOLOGY, ACADEMIC BUILDING -9, TRIPURA UNIVERSITY, SURYAMANINAGAR, AGARTALA, TRIPURA, 799022. Resident Address: MIRZA, PO-

  
(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tripura University  
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			UPENDRANAGAR, KAKRABAN, GOMATI TRIPURA, 799105. E-mail : jayantapal@tripurauniv.in PAN: COPPP9774R
D.R.C.M.JOSHI (DIRECTOR)	INDIA	AN INDIAN NATIONAL	R.J.S.P.M.,S INSTITUTE OF COMPUTER & MANAGEMENT RESEARCH, DUDULGAON, PUNE, MH, INDIA.
PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER- GEH RESEARCH LLP)	INDIA	AN INDIAN NATIONAL	GEH RESEARCH LLP ADDRESS: GEH RESEARCH, G-12, LAVELLE ROAD, BENGALURU, KARNATAKA-560001, INDIA. ADDRESS: GEH RESEARCH, A-19-21, IHONBASHIHAKOZAKICHŌ, CHŪŌ-KU, TŌKYŌ-TO-103-0015, JAPAN. ADDRESS: GEH RESEARCH, E-101 KITCHAWAN RD, YORKTOWN HEIGHTS, NY 10598, UNITED STATES.

**3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]**

<b>Natural Person (✓)</b>	<b>Other than Natural Person ( )</b>		
	Small Entity ( )	Startup ( )	Others ( )

**4. INVENTOR(S): [Please tick (✓) at the appropriate category]**

<b>Are all the inventor(s) same as the applicant(s) named above?</b>	<b>Yes (✓)</b>	<b>No ( )</b>
--	----------------	---------------

If "No", furnish the details of the inventor(s) N.A

Name	Nationality	Country of Residence	Address
NA	NA	NA	NA

**5. TITLE OF THE INVENTION:**

**RWO-Mobile Cache Memory: ADVANCED TECHNIQUES READ AND WRITE OPERATIONS ON MOBILE CACHE MEMORY.**

<b>6. AUTHORISED REGISTERED PATENT AGENT(S)</b>		NA
<b>ADDITIONAL PATENT AGENTS</b>	NA	

<b>7. ADDRESS FOR SERVICE OF APPLICANT/ PATENT AGENT(S) IN INDIA</b> PROF.(DR.) PAWAN KUMAR BHARTI (VICE CHANCELLOR	Mobile No.: 8059794469 E-mail: <a href="mailto:dr.bksarkar2003@yahoo.in">dr.bksarkar2003@yahoo.in</a>
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*Sumit*  
(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tripura University  
Agartala

SHRI VENKATESHWARA UNIVERSITY) Address: A-905, GAUR ATULYAM SOCIETY OMICRON-1, GREATER NOIDA, UP-201310, INDIA E-MAIL: padutt@gmail.com E-mail: vc@svu.edu.in Pan no: AGZPB8342B	
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**8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED  
IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION  
APPLICATION: N.A**

Country	Appln. Number	Filing Date	Name of the Applicant	Title of the Invention	IPC (as classified in the convention country)
NA	NA	NA	NA	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 as allotted by the receiving office.
NA	NA

**10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16,  
PARTICULARS OF ORIGINAL (FIRST) APPLICATION : N.A**

Original (first) application number	Date of filing of Original (first) application
N.A.	N.A.

**11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54,  
PARTICULARS OF MAIN APPLICATION OR PATENT: N.A**

Main application / patent Number	Date of filing of main application
N.A.	N.A.

**12. DECLARATIONS:**

**(i) Declaration by the Inventor:**

(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).

We, the above named inventor are the true & first inventor for this invention and declare that the applicant herein is my assignee or legal representative:

NA

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

*S*  
(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tripura University  
Suryamaninagar

**(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. : **N.A.**

**(iii) Declaration by the applicants:**


We, the applicants hereby declare that: -

1. We are in possession of the above-mentioned invention.
2. The **Complete Specification** relating to the invention is filed with this application.
3. 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 us before the grant of patent to us: **N.A.**
4. There is no lawful ground of objection to the grant of the patent to me/ us.
5. We are the assignees or legal representatives of true and first inventors:
6. The application or each of the applications, particulars of which are given in Para – 8 was the first application in convention country/countries in respect of our invention: **N.A.**
7. We claim the priority from the above mentioned application 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 us or by any person from which we derive the title: **YES**
8. Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Para-9: **N.A.**
9. The application is divided out of our application particulars of which is given in Para-10 and prays that this application may be treated as deemed to have been filed on N.A. Under sec.16 of the Act: **N.A.**
10. The said invention is an improvement in or modification of the invention particulars of which are given in Para-11 :**N.A.**

**FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION**

**(a) Form 2**

Item	Details	Fee	Remarks
Complete specification) #	No. of pages:		
Claim(s)	No. of claims: No. of pages:		
Abstract	No. of pages:		
Drawing(s)	No. of drawings: No. of pages:		

  
(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tripura University  
Suryamaninagar

# 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.

1. Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**
2. Sequence listing in electronic form **N.A**
3. Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**
4. Statement and Undertaking on Form-3
5. Declaration of Inventor ship on Form-5
6. Request For Publication Form9 , 2750.Rs
7. Form18 Examination Request, 4400.Rs
8. Power of Authority
9. Other Form 4 to 31 According to needed can fill.

Total fee Rs ...../- **in Cash/ Banker's Cheque /Bank Draft bearing No.....**


**Date.....on..... Bank.**

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

**Dated :15/2/2020**

PROF.(DR.) PAWAN KUMAR BHARTI (VICE CHANCELLOR SHRI VENKATESHWARA UNIVERSITY)  
DR. RAKESH KUMAR YADAV ( DIRECTOR- KCCITM)  
DR. NEERAJ KUMAR MISRA (ASSOCIATE PROFESSOR)  
DR. ANIL KUMAR SAHU (ASSOCIATE PROFESSOR)  
JAYANTA PAL (ASSISTANT PROFESSOR )  
DR.C.M.JOSHI (DIRECTOR)  
PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER- GEH RESEARCH LLP)

To,  
The Controller of Patent,  
The Patent Office, at .....

  
(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tripura University  
Suryamaninagar





Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India



Application Details	
APPLICATION NUMBER	201731003023
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/01/2017
APPLICANT NAME	CHAUDHURI, Shaon Ray
TITLE OF INVENTION	BIO-FERTILIZER PRODUCTION FROM BACTERIAL CONSORTIUM
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	info@khuranaandkhurana.com
ADDITIONAL-EMAIL (As Per Record)	info@khuranaandkhurana.com
E-MAIL (UPDATED Online)	docket@khuranaandkhurana.com;info@khuranaandkhuran
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	08/10/2020
PUBLICATION DATE (U/S 11A)	31/01/2020

Application Status	
APPLICATION STATUS	Application Awaiting Examination

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*Shard*  
(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tripura University  
Suryamaninagar



<b>FORM 18</b>  The Patents Act , 1970 (39 of 1970 ) & The Patents Rule ,2003 <b>REQUEST / EXPRESS REQUEST FOR EXAMINATION OF  APPLICATION FOR PATENT</b> [See section 11B and rules 20 (4) (ii), 24B (1) (i)]	(FOR OFFICE USE ONLY)  RQ. No: Amount of fee Paid: CBR No Signature:
<b>1. APPLICANT(S)/ OTHER INTERESTED PERSON(S)</b>  (a) Name: CHAUDHURI, Shaon Ray (b) Nationality: India (c) Address: Department of Microbiology, Tripura University, Suryamaninagar, West Tripura-799022, India. (d) Date of publication of the application under section 11A: 31 Jan 2020	
<b>2. STATEMENT IN CASE OF REQUEST FOR EXAMINATION MADE BY ANY THE APPLICANT(S)</b>  I/We CHAUDHURI, Shaon Ray hereby request that my/our application for patent no. 201731003023 dated 27/01/2017 for the invention <b>BIO-FERTILIZER PRODUCTION FROM BACTERIAL CONSORTIUM</b> shall be examined under sections 12 and 13 of the act.	
<b>ADDRESS FOR SERVICE</b>  Mr. Tarun Khurana, Regd. Patent Agent (INPA-1325); Ms. Meenakshi, Regd. Patent Agent (INPA-1609) Mr. AbhishekPandurangi, Regd. Patent Agent (INPA-1722) and Mr. Antony David, Regd. Patent Agent (INPA- 2066)  <b>Khurana and Khurana, Advocates and IP Attorneys, E-13, UPSIDC, Site-IV, Behind-Grand Venice, Kasna Road, Greater Noida 201310, UP, National Capital Region, India.</b>  Telephone No: 120 4296878/4909201 Fax No. 0120-2399113 Mobile No. 9810617992 , 9910307992 E-mail : tarun@khuranaandkhurana.com <a href="mailto:info@khuranaandkhurana.com">info@khuranaandkhurana.com</a>	
Dated this: 08 <sup>th</sup> day of October, 2020  Signature   Tarun Khurana (INPA-1325)	
To, [The Controller of Patents], The Patent Office, At Kolkata	

  
(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tripura University  
Suryamaninagar

**FORM 5**  
**THE PATENT ACT, 1970**  
**( 39 OF 1970 )**  
**&**  
**The Patents Rules, 2003**  
**DECLARATION AS TO INVENTORSHIP**  
**[See section 10(6) and rule 13(6)]**

<b>1. NAME OF APPLICANT (S)</b>	CHAUDHURI, Shaon Ray of address Department of Microbiology, Tripura University, Suryamaninagar, West Tripura-799022, India.
---------------------------------	---

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my / our application numbered **201731003023** Dated **27<sup>th</sup> January, 2017**, are

**2. INVENTOR (S)**

- 1. a. Name:** CHAUDHURI, Shaon Ray  
**b. Nationality:** IN  
**c. Address:** Department of Microbiology, Tripura University, Suryamaninagar, West Tripura-799022, India.
- 2. a. Name:** THAKUR, Ashoke Ranjan  
**b. Nationality:** IN  
**c. Address:** A-1, Vidya Sagar Niketan, Salt Lake, Kolkata-700066, West Bengal, India.
- 3. a. Name:** GANTAYET, Lalit Mohan  
**b. Nationality:** IN  
**c. Address:** 4A, Divyajyoti, Plot-51, Sector-29, Vashi, Navi Mumbai – 400703. India.

Dated this 22<sup>nd</sup> day of January, 2018


Signature :-

Name: Tarun Khurana (IN/PA-1325)

Khurana & Khurana, Advocates and IP Attorneys

**3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT (S) IN THE CONVENTION COUNTRY:-**

-NA-

  
(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tripura University  
Suryamaninagar

**4. STATEMENT**

I/We assent to the invention referred to in the above declaration, being included in the provisional specification filed in pursuance of the stated application.

**1. a. Name:** GANTAYET, Lalit Mohan

**b. Nationality:** IN

**c. Address:** 4A, Divyajyoti, Plot-51, Sector-29, Vashi, Navi Mumbai – 400703. India

*Lalit Mohan Ganta*

Signature of Additional Inventor :-

Name: **GANTAYET, Lalit Mohan**

To,

The Controller of Patent

The Patent Office, at Kolkata

*Sant*  
(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tribura University  
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	Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1	2020102068	LSM- Quantum Computing: LARGE DATABASES STORE INTO A VERY SMALL MEMORY USING QUANTUM COMPUTING AND AI-BASED PROGRAMMING	Ahmadpour, Seyed-Sajad; Bhoi, Bandan Kumar; Kassa, Sankit Ramkrishna; Misra, Neeraj Kumar, Pal, Jayanta; Pathak, Nirupma; Sahu, Anil Kumar; Tiwari, Ravi	Misra, Neeraj Kumar; Pathak, Nirupma; Sahu, Anil Kumar; Bhoi, Bandan Kumar; Kassa, Sankit Ramkrishna; Tiwari, Ravi; Ahmadpour, Seyed-Sajad; Pal, Jayanta	2020-09-01	GRANTED

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*S*  
(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tripura University  
Suryamaninagar





Australian Government

IP Australia

# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2020102068

The Commissioner of Patents has granted the above patent on 30 September 2020, and certifies that the below particulars have been registered in the Register of Patents.

**Name and address of patentee(s):**

Neeraj Kumar Misra of Department of Electronics and Comm., Bharat Institute of Engineering and Tech Hyderabad Telangana 501510 India

Nirupma Pathak of 538KHA/391 Deen Dayal Nagar Khadra Sitapur Road Lucknow 226020 Uttar Pradesh India

Anil Kumar Sahu of Department of Electronics and Comm., Bharat Institute of Engineering and Tech Hyderabad 501510 Telangana India

Bandan Kumar Bhoi of Department of Electronics and Telecomm., Veer Surendra Sai University of, Technology Burla, Odisha 768018 India

Sankit Ramkrishna Kassa of B-112, Jogeshwari baug Society, Arbudanagar Road, ODHAV, Ahmedabad Gujarat-382415 India

Ravi Tiwari of Aster - 11, Chauhan Green Valley, Junwani, Durg Chhattisgarh-490020 India

Seyed-Sajad Ahmadpour of Khozestan Province Ahvaz Street Padad p 37 Iran, Islamic Republic of

Jayanta Pal of Department of Information Technology, Tripura University, Suryamaninagar Tripura-799022 India

**Title of invention:**

LSM- Quantum Computing: LARGE DATABASES STORE INTO A VERY SMALL MEMORY USING QUANTUM COMPUTING AND AI-BASED PROGRAMMING

**Name of inventor(s):**

Misra, Neeraj Kumar; Pathak, Nirupma; Sahu, Anil Kumar; Bhoi, Bandan Kumar; Kassa, Sankit Ramkrishna; Tiwari, Ravi; Ahmadpour, Seyed-Sajad and Pal, Jayanta

**Term of Patent:**

Eight years from 1 September 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 30<sup>th</sup> day of September 2020

Commissioner of Patents

**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

(Dr. K.B. Jamatia)  
Registrar (I/C)  
Tribuna University  
Suryamaninagar

