

Ajay Kumar
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CAREER OBJECTIVES

Intend to build a career with leading corporate of hi-tech environment with committed & dedicated people, which will help me to explore myself fully and realize my potential. Willing to work as a key player in a challenging & creative environment.

Research Interest: Infectious diseases, molecular epidemiology, genomics, proteomics, and host pathogen interactions. Development of biomarkers-based assays for diagnosis of infectious diseases.

EDUCATIONAL QUALIFICATIONS

- ❖ Post Graduate Program in Infectious Diseases by Medvarsity in association with School of Population Health University of New South Wales-Medicine and Health awarded on 13 September 2023
- ❖ PhD Medical Microbiology, Santosh Medical College, Santosh University, Ghaziabad, 2020
- ❖ M.Sc. Medical Microbiology, Bundelkhand University, Jhansi, 2006, 73.2%.
- ❖ B.Sc. Pathology, Barkatullah University, Bhopal, 2004, 65.4%.
- ❖ Senior School Certificate Examination, CBSE Board, 2001, 53%.
- ❖ Secondary School Examination, CBSE Board, 1999, 78.6%.

EXPERIENCE

- ❖ Working as Assistant Professor Microbiology at Manipal TATA Medical College, Jamshedpur since 1st November 2022.
- ❖ Worked as Tutor in Department of Microbiology at Manipal TATA Medical College, Jamshedpur since 13th February 2020 to 31st October 2022.
- ❖ Worked as lecturer in the Department of Microbiology at Bhabha College of Dental Sciences, Bhopal from 4th Jan 2010 to 23 August 2013.

TRAINING & CERTIFICATE COURSES

- ❖ Completed the DHR-sponsored training program titled "Whole Exome Sequencing in Clinical Settings: Hands-on Workshop," held from September 24-27, 2024, and organized by the National Institute of Cancer Prevention and Research (NICPR) in Noida.
- ❖ Completed Basic course in Medical Education at Manipal Tata Medical College coordinated by NMC regional centre SCB Medical College, Cuttack.
- ❖ Completed Certificate Course on Laboratory Management System and Internal audit as per *IS/ISO 15189:2022* organized by Medical Education & Learning Point, New Delhi
- ❖ Completed *ISO 15189:2012* IA & OMS Certificate Course organized by Medical Education & Learning Point, New Delhi
- ❖ Completed NPTEL online certification course "Basic Course in Biomedical Research" offered by National Institute of Epidemiology, Indian Council of Medical Research, Chennai.

- ❖ Completed certificate course on whole genome sequencing of bacterial genomes- tools and applications authorized by Technical University of Denmark.
- ❖ Completed certificate course on antimicrobial resistance- theory and methods authorized by Technical University of Denmark.
- ❖ Completed Certificate course in Design and Interpretation of Clinical Trials authorized by Jhons Hopkins University through Coursera.
- ❖ Completed Certificate course in Introduction to Systematic Review and Meta-Analysis authorized by Jhons Hopkins University through Coursera.
- ❖ Completed Certificate course in General Pandemic Management & Covid 19 Management offered by AIIMS, New Delhi
- ❖ Completed NPTEL online certification course Scientific Writing in Health Research offered by National Institute of Epidemiology, Indian Council of Medical Research, Chennai.
- ❖ Completed certificate course on Metagenomics applied to surveillance of pathogens and antimicrobial resistance authorized by Technical University of Denmark.
- ❖ Completed NPTEL online certification course Ethics Review of Health Research offered by National Institute of Epidemiology, Indian Council of Medical Research, Chennai.
- ❖ Completed NPTEL online certification course “Introduction to Systematic Reviews for Dental Health Professionals” offered by National Institute of Epidemiology, Indian Council of Medical Research, Chennai.
- ❖ Completed Certificate Course in Awareness and Management of COVID-19 offered by Medvarsity.
- ❖ Completed Certificate Course in Vaccine Administration offered by Medvarsity.
- ❖ Completed Certificate course in Infection Prevention in Nursing Homes authorized by University of North Carolina at Chapel Hill through Coursera.
- ❖ Completed Certificate course in The Science of Stem Cells authorized by American Museum of Natural History: Education Department through Coursera.
- ❖ Completed Certificate course in Antibiotic Stewardship authorized by Stanford University through Coursera.
- ❖ Completed Certificate course in “Point of care testing for Sexually Transmitted Infections” authorized by Jhons Hopkins University through Coursera.
- ❖ Completed NPTEL online certification course “Health Research Fundamentals” offered by National Institute of Epidemiology, Indian Council of Medical Research, Chennai.
- ❖ Completed NPTEL online certification course “Experimental Biotechnology” coordinated by Indian Institute of Technology Guwahati.
- ❖ Completed NPTEL online certification course “Introduction to Proteomics” coordinated by Indian Institute of Technology Bombay.
- ❖ Completed Certificate course “Bioinformatics Methods and Tools Master” from Biotechnika Info Labs Pvt. Ltd.
- ❖ Carried out 1-year Dissertation project work at National JALMA Institute for Leprosy & Other Mycobacterial Diseases (ICMR), Tajganj, Agra on Project entitled

“Serological studies with leprosy patients employing various Mycobacterium leprae antigens”.

PATENTS

- ❖ “Method for LCMS based proteomic analysis of circulating immune complexes from Tuberculosis patients” (Application no: 202111003543) published under Office of the Controller General of patents, Designs & Trade Marks, Department of Industrial policy and promotion, Ministry of Commerce & Industry, Government of India.

PUBLICATIONS

1. Om Parkash, Ajay Kumar, Astha Nigam, Bhawneshwar K. Girdhar. Detection of antibodies against *Mycobacterium leprae* culture filtrate protein-10 in leprosy patients”. Journal of Med. Microbiology, 2006, 55: 1337-1341.
2. Om Parkash, Ajay Kumar, Astha Nigam, K.L.M.C. Franken, T.H.M. Ottenhoff. Evaluation of recombinant serine rich 45kDa antigen (ML0411) for detection of antibodies in leprosy patients. Scandinavian Journal of Immunology, 2006, 64:450-455.
3. Om Parkash, Ajay Kumar, Amit Kumar, Mohan L. Arora. Low temperature incubation improves the performance of anti-phenolic glycolipid-I antibody detecting ELISA in leprosy patients. Journal of Med. Microbiology. 2007, 56: 438-440.
4. Om Parkash, Richa Pandey, Ajay Kumar, Amit Kumar. Performance of recombinant ESAT-6 antigen (ML0049) for detection of leprosy patients. Letters in Applied Microbiology. 2007, 44: 524-530.
5. Om Parkash, Ajay Kumar, Richa Pandey, Kees L.M.C. Franken & Tom H.M. Ottenhoff. Detection of *Mycobacterium leprae* infection employing a combinatorial approach of anti- 45 kDa and modified anti-PGL -I antibody detecting assays. Journal of Med. Microbiology.2007, 56: 1129-1130.
6. Om Parkash, Ajay Kumar, Richa Pandey, Bhawneshwar K Girdhar, Kees L.M.C.Franken; Tom H.M. Ottenhoff. Serological heterogeneity against various *Mycobacterium leprae* antigens and its use in serodiagnosis of leprosy patients. Journal of Med. Microbiology. 2007, 56, 1-3.
7. Kiran Chawla, Ajay Kumar, Vishnu Prasad Shenoy, Sanjiban Chakrabarty, Kapaettu Satyamoorthy. Genotypic Detection of fluoroquinolone resistance in drug resistant *Mycobacterium tuberculosis* at a tertiary care centre in south coastal Karnataka. Journal of Global Antimicrobial Resistance, 2018, 13,250-253.
8. Kiran Chawla, Ajay Kumar, Vishnu Prasad Shenoy, Devendra Singh Chauhan, Pragya Sharma Genetic diversity of *Mycobacterium tuberculosis* in South Coastal Karnataka, India, using spoligotyping. Indian Journal of Medical Research. 2018, 147(3), 278-286.
9. Kiran Chawla, Ajay Kumar, Vishnu Prasad Shenoy, Devendra Singh Chauhan, Pragya Sharma. Strain diversity and relative transmission of *Mycobacterium tuberculosis* in south coastal Karnataka, India. International Journal of Tuberculosis and Lung Diseases. 2018, 22(8), 778-83.

10. Vishnu Prasad Shenoy, Ajay Kumar, Kiran Chawla. Rapid detection of Multidrug resistant Tuberculosis in respiratory specimens at a tertiary care centre in south coastal Karnataka, using Genotype MTBDR plus assay. *Iranian Journal of Microbiology*. 2018, 10(5), 275-80.
11. Kiran Chawla, Elena Martinez, Ajay Kumar, Vishnu Prasad Shenoy, Vitali Sintchenko. Whole genome sequencing reveals genetic signature of bedaquiline resistance in a clinical isolate of *Mycobacterium tuberculosis*. *Journal of Global Antimicrobial Resistance*. 2018; 15, 103-4.
12. Sanjiban Chakrabarty, Ajay Kumar, Kuthethur Ravi Prasad, Kapaettu Satyamoorthy, Kiran Chawla. Host and MTB genome encoded miRNA markers for diagnosis of Tuberculosis. *Tuberculosis*. 2019; 116:37-43.
13. Kiran Chawla, Ajay Kumar; Vishnu Prasad Shenoy. Evaluation of Gene Xpert /MTB RIF assay for diagnosis of Extra-pulmonary TB at a tertiary care centre in south coastal Karnataka. *Annals of Tropical Medicine and Public Health* 2019;20: SP2031-19.
14. Ajay Kumar, Kiran Chawla, Rupesh Thakur, Manjunath B Joshi, Kapaettu Satyamoorthy, Dakshina Bisht. Proteomic Analysis of Circulating Immune Complexes from Tuberculosis Patients. *Journal of Pure and Applied Microbiology*. 2019; 13(2): 1235-1244.
15. Ajay Kumar, Kiran Chawla, Haritha Madigubba, Rupesh Thakur, Dakshina Bisht. Evaluation of Serum Complement Component 1Q Subcomponent C (C1qC) as a marker for Tuberculosis. *J. Evolution Med. Dent. Sci*. 2019; 8(33):2614-2618.
16. Vishnu Prasad Shenoy, Ajay Kumar and Kiran Chawla, Diagnostic Performance of Xpert MTB/RIF in Suspected Cases of Pulmonary Tuberculosis in Comparison with LED-Fluorescence Microscopy and Culture. *Journal of Pure and Applied Microbiology*. 2019; 13(3): 1461-1465.
17. Kiran Chawla, Ajay Kumar, Vishnu Prasad Shenoy, Revathi Shenoy, Evaluation of polymerase chain reaction and pleural fluid adenosine deaminase levels for the diagnosis of tuberculous pleural effusion. *J. Evolution Med. Dent. Sci*. 2019; 8(43):3258-3262.
18. Ajay Kumar, Kiran Chawla, Haritha Madigubba, Rupesh Thakur, Dakshina Bisht. Evaluation of Diagnostic Significance of Complement Component C1q linked Circulating Immune Complexes in Tuberculosis. *International Journal of Medical Science and Current Research*. 2020; 3(3):652-660.
19. Akshita Gupta, Ajay Kumar, Haritha Madigubba, Aseem Ashraf, Kiran Chawla. A pilot study to evaluate Determine TB LAM assay for diagnosis of pulmonary tuberculosis among non-HIV patients. *Tropical Doctor*, 2020 Jul 8: 0049475520936164.
20. Kusumakshi Nayak, Shobha KL, Vishnu prasad Shenoy, Ajay Kumar. Pharyngeal carriage of pathogenic bacteria in healthy school going children in coastal Karnataka. *International Journal of Advanced Science and Technology*. 2020; 29(4):9239-9249.
21. Akshita Gupta, Kiran Chawla, Meher Gujral, Ajay Kumar. Diphtheria resurgence in India: A case report from south coastal Karnataka. *Journal of Family Medicine and Primary Care*, 2020; 9:5776-8.

22. Akshita Gupta, Kiran Chawla, PA Shenoy, Ajay Kumar. Emerging resistance among clinical *Bacteroides fragilis* isolates in association with *nim* and *cfiA* gene. *International Journal of Infectious Diseases*. 2020;1; 101:25.
23. Akshita Gupta, Padmaja Shenoy, Ajay Kumar, Kiran Chawla. Clinico-microbiological profile of *Bacteroides fragilis* with focus on molecular detection of emerging resistance. *Indian J Med Res*. 2021;154(5):750-756.
24. Kiran Chawla, Ajay Kumar, Asha Hegde, Arun Kumar Govindakarnvar. A pilot study on aetiology of acute lower respiratory tract infections among children hospitalized of respiratory illness at a rural hospital in South coastal Karnataka. *Biomed Pharmacol J* 2022;15 (2) 663-668.
25. Srivastava P, Bisht D, Kumar A, Tripathi A. Prevalence of Carbapenem-resistant *Escherichia coli* and *Klebsiella pneumoniae* in rural Uttar Pradesh. *J Datta Meghe Inst Med Sci Univ* 2022; 17:584-8.
26. Srivastava P, Bisht D, Kumar A. Molecular Characterization of Carbapenemases among Clinical Strains of Enterobacteriaceae at a Tertiary Care Hospital in Rural Uttar Pradesh. *Journal of Pharmaceutical Negative Results*. 2022;13(7):806-10.
27. Ranjan J, Ahmad A, Subudhi M, Kumar A. Assessment of Artificial Intelligence Platforms with Regard to Medical Microbiology Knowledge: An Analysis of ChatGPT and Gemini. *Cureus*. 2024 May 20;16(5).
28. Shruthi Vasanthaiah, Renu Verma, Ajay Kumar, Aravind K Bandari, John George, Mona Rastogi, Gowrang Kasaba Manjunath, Jyoti Sharma, Abhishek Kumar, Janavi Subramani, Kiran Chawla, Akhilesh Pandey, Culture-Free Whole Genome Sequencing of *Mycobacterium tuberculosis* Using Ligand-Mediated Bead Enrichment Method, *Open Forum Infectious Diseases*, Volume 11, Issue 7, July 2024, ofae320.

HONORS & AWARDS

- ❖ As Resource person for pre-conference workshop in Tropacon 2019, XIII Annual National Conference of Indian Academy of Tropical Parasitology held at Department of Microbiology, Kasturba Medical College, MAHE, Manipal on 6th September 2019.
- ❖ As resource person for Molecular Diagnosis of Anaerobic infections in the National Anaerobic workshop at Kasturba Medical College, Manipal on 8 Sep 2017.
- ❖ Participated in Techno Fest 2002 @ Extol Campus on 21st & 22nd December & won 1st prize in Model Exhibition (Pathology) event.
- ❖ Participated in Extol Techno Glimpse 2002 held at Extol Campus on 19th & 20th January & won 3rd prize in Bio Science Model event.

WORKSHOP, CONFERENCES & SEMINARS

- ❖ Participated in Pedagogic effectiveness workshop organized by Medical education Unit, Manipal Tata Medical College, Jamshedpur, held from 6th to 8th November 2023.
- ❖ Attended workshop on CRISPR Cas9 - Mastering Precision Gene Editing on 17th June 2023 organized by Biotechnika Info labs Pvt ltd.
- ❖ Participated in the second National conference IDCON 2023 held on 6th May 2023 at AIIMS Jodhpur.

- ❖ Attended Industry-Academia collaboration workshop on Methodological approach to Evidence Synthesis 31st March to 1 April 2023 at MTMC, Jamshedpur.
- ❖ Attended workshop on “Few steps towards the world of Quality” conducted by Manipal Tata Medical College, Jamshedpur on 29th March 2023.
- ❖ Attended online course on Molecular Cloning organized by Flowcytometry solutions Pvt Ltd, Jaipur from 28th March 2023 to 1st April 2023.
- ❖ Attended workshop on “Stem cell culture, functional characterization and potency assays” organized by Manipal Centre for Biotherapeutics Research, Manipal academy of Higher Education, Manipal Karnataka, between 20th to 24th February 2023.
- ❖ Participated in Pathocon & Lab Expo 2022 organized by The Association of Practising Pathologist on 17-18th December 2022 and attended Workshop on Immunohistochemistry and Molecular in infections.
- ❖ Completed Certificate course in “AST Reporting and Beyond” Supported by American Society of Microbiology from April to August 2022.
- ❖ Participated as delegate in the CME on “Oral Microbiome and Infections: Revisiting the Fundamentals” on 9th April 2022 Organized by Department of Microbiology, Kasturba Medical College, Mangalore.
- ❖ Participated in 14th Annual Workshop on “Basic & Molecular Diagnostics in Mycology” virtual Workshop conducted by the Department of Microbiology, Sri Ramchandra Institute of Higher Education & Research from 30th March to 2nd April 2022.
- ❖ Participated in CME on “Tuberculosis: Recent updates and emerging challenges” Organized by Department of Microbiology, AIIMS, Bhubaneshwar on 23rd March 2022.
- ❖ Participated as a Delegate in Virtual Conference on Combating Antimicrobial Resistance to observe World Antimicrobial Awareness Week – 2021 held on 18th to 23rd January 2021, organized by Departments of Infectious Diseases and Emergency Medicine, Kasturba Medical College, Manipal & Hospital, MAHE, Manipal, Manipal Center for Infectious Diseases, Prasanna School of Public Health, MAHE, Manipal, Division of Infectious Diseases, Wayne State University, Michigan, Detroit, USA, Departments of Microbiology and Medicine, Kasturba Medical College, Mangalore, MAHE, Manipal, India.
- ❖ Attended online training program on “Data Analysis using Jamovi” organized by the Manipal Academy of Higher Education, Student Research Forum, under the aegis of Directorate of Research and Department of Data Sciences, Prasanna School of Public Health, MAHE, Manipal from September 4 to September 9, 2021.
- ❖ Attended “A Primer to Medical Genetics” course organized by the Department of Medical Genetics, Kasturba Medical College, Manipal, Karnataka, India from 31 August to 12 September 2021.
- ❖ Attended second International online flow cytometry course on “Flow Cytometry and its applications in Biomedical Sciences” organized by Trust for Education and Training in cytometry from 1st September to 4th September 2021.
- ❖ Attended online training program on “Virology- From basics to Advanced” course from August 16 to August 21, 2021, organized by the Manipal Academy of Higher

Education (MAHE), Student Research Forum (SRF), under the aegis of Directorate of Research and, Manipal Institute of Virology, MAHE, Manipal.

- ❖ Participated in the International webinar on World Hepatitis Day organized by Manipal Institute of Virology, MAHE and department of Gastroenterology and Hepatology, Department of Immunohematology and Blood transfusion, KMC Manipal on July 28, 2021.
- ❖ Participated in the International symposium on Tuberculosis to observe World Tuberculosis Day 2021 organized by Department of Infectious Diseases, Kasturba Medical College, Manipal and Mayo Clinic Center for Tuberculosis, U.S.A. on 24 March 2021.
- ❖ Attended an online training session on “Basics of HPLC/UPLC analysis and troubleshooting in HPLC method development” as a part of online training series on Analytical Techniques organized by the Centre of Drug Testing, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal on 20th March 2021.
- ❖ Attended International Webinar under Anaerobic Forum India on the theme of "Anaerobes: Microbes of the Millennium” being jointly organized by All India Institute of Medical Sciences, New Delhi and American Society for Microbiology on 4–5 March 2021.
- ❖ Participated in a two days virtual conference on “Clinical Research & Biostatistics Conference CRBCON-2021” organized by Department of Nephrology & Clinical Epidemiology Unit MAHE on 20th and 21st February 2021.
- ❖ Participated in sepsis week 2021 organized by Department of Emergency Medicine, Department of Infectious disease and Department of General Medicine, Kasturba Hospital, Manipal on 18th to 23rd January 2021
- ❖ Attended technical workshop on Animal cell culture on 10th December 2020 organized by Manipal Government of Karnataka Bio-incubator.
- ❖ Participated and presented a scientific paper (poster) “Evaluation of Gene Xpert /MTB RIF assay for diagnosis of Extra-pulmonary TB at a tertiary care centre in south coastal Karnataka” in National tuberculosis Conference-Towards TB Elimination: Vision of the nation on 6th October 2018 organized by Department of Microbiology, Kasturba Medical College, Manipal in association with District TB Centre, Udupi, Department of Health and Family welfare, Gov. Karnataka.
- ❖ Participated in Skill Workshop and Seminar on Genome Sequencing and Analysis jointly organized by Department of Microbiology, KMC Manipal, School of Life Sciences MAHE and University of Sydney from 9-5-2018 to 11-5-2018.
- ❖ Participated in a 3 day’s National Hands-on workshop on Anaerobic culture techniques and Identification titled ‘An Encounter with Anaerobes’ from 9.04.2018 to 11.04.2018 at Father Muller Medical College, Mangalore.
- ❖ Participated as delegate in conference “Exploring the less explored” at Kasturba Medical College, Manipal on 9 Sep 2017.
- ❖ Participated in the National workshop on “SPSS (Statistical Package for Social Sciences) at People’s College of Nursing & Research Centre, Bhopal on 16 Jan 2016.

- ❖ Participated & presented a paper entitled “Evaluation of culture filtrate protein-10 for detection of antibodies in leprosy patients.” In 24th Biennial conference of Indian Association of Leprologists held at National JALMA Institute for Leprosy & Other Mycobacterial Diseases (ICMR), Agra.
- ❖ Attended 7 days symposium on “Quality Control Parameters: - Microbiological Analysis & IPR proceedings” organized at Extol Institute of Management, Bhopal.
- ❖ Attended CME on “Hospital Acquired Infections “conducted at PCPS & RC, Peoples campus, Bhopal on 12 March 2015.
- ❖ Attended CME on “Laboratory diagnosis of Infectious diseases” conducted at PCPS & RC, Peoples Campus, and Bhopal on 2 April 2015.
- ❖ Attended CME on “Antimicrobial Chemotherapy” conducted at PCPS & RC, Peoples Campus, and Bhopal on 14 October 2015.

CAMPS ATTENDED

- ❖ UNICEF CAMP, Gandhi Nagar, Bhopal.
- ❖ Pulse Polio CAMP, Extol Charitable Hospital, Bhopal

TECHNIQUES

- ❖ Staining: - Gram’s staining, ZN staining, Auramine phenol staining, Albert’s staining, Field staining, Leishman staining, capsule staining, spore staining and fungal staining.
- ❖ Gel staining: - commasai blue & silver staining.
- ❖ Preparation of different types of culture Medias.
- ❖ Drug susceptibility testing.
- ❖ DNA isolation,
- ❖ RNA isolation
- ❖ Whole Genome Sequencing & Exome sequencing
- ❖ Plasmid isolation and Cloning.
- ❖ Genotyping, Spoligotyping, MIRU-VNTR typing and RFLP typing.
- ❖ Immune complexes analysis.
- ❖ 2D Electrophoresis, SDS PAGE & Agarose gel electrophoresis.
- ❖ Chromatography: - Paper Chromatography & Thin Layer Chromatography.
- ❖ ELISA & Western blotting.
- ❖ Bacterial transformation.
- ❖ Gene amplification and PCR.
- ❖ Proteomics sample preparation and analysis.
- ❖ Basic tissue culture techniques.
- ❖ Knowledge of clinical biochemistry, histopathology, serology, pathology, and microbiology techniques.

STATISTICAL PACKAGES KNOWN

- ❖ SPSS, GRAPH PAD PRISM, MED CALCULATOR, EPI TOOLS, JAMOV.

COMPUTER SKILLS

- ❖ Fundamentals, Basic, MS WORD, EXCEL, and Internet.

STRENGTHS

- ❖ Quick Learner, Collaborative, Decisive thinker, driven to deliver.

MEMBERSHIP OF PROFESSIONAL BODIES

- ❖ Indian Society of Medical Mycologists: Membership Id: LM-714
- ❖ National M.Sc Medical Teachers Association :2021/LM/JH/MICR/516
- ❖ Member of Infection Control Academy

PERSONAL PROFILE

Father's Name: Chandra Shekhar

Date of Birth: 20th Jan 1984

Gender: Male

Marital Status: Married

Nationality: Indian

Category: OBC

Language Known: Hindi & English.

Hobbies: Listening Music

REFERENCES

- 1) Dr Dakshina Bisht
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- 2) Dr Kiran Chawla,
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- 3) Dr Om Parkash,
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National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra, India
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DECLARATION

I hereby declare that the above details furnished by me are true to the best of my knowledge.

Date: 10-3-2024

Place: Jamshedpur, Jharkhand

Ajay Kumar