# CURRICULUM VITAE

NAME	:	Dr. Arshad Kamal		
PRESENT POSITION	:	: Assistant Professor (Stage-II, Academic Level 11)		
	:	Department of Physics, Shibli National College,		
		Azamgarh-Uttar Pradesh-India		
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ACADEMIC QUALIE	ICA	ATIONS:		



Examinations	Year	University/Board	Division
Ph.D. (Physics)	2008	Aligarh Muslim	Awarded
		University, Aligarh	
M.Phil. (Physics)	2005	Do	Awarded)
M.Sc. (Physics)	2003	Do	Ι
		_	_
B.Sc. (Hons.) Physics	2000	Do	Ι
	1007		
10+2 (SSSC)	1997	Do	1
	1004	LI D	т
High School	1994	U.P.	1

- Title of Ph.D. Thesis "A Study of Some Interesting Features of Relativistic Nuclear Collisions", from Department of Physics, Aligarh Muslim University, Aligarh, India.
- Title of M.Phil. Dissertation "A Study of Relativistic Heavy-Ion Collisions", from Department of Physics, Aligarh Muslim University, Aligarh, India.

## **RESEARCH INTEREST:**

- Nuclear & Particle Physics
- Relativistic Heavy-Ion Collisions
- Physics Application of Grid Computing
- Environmental Radon Radiation Physics
- Computational Active Matter (Modeling & Simulation)

#### ACADEMIC ACHIEVEMENTS/AWARDS:

- Served as one of the members of Board of Studies for implementing UG curriculum on physics as per NEP-2020 at V.B. S. P. U. Jaunpur (2020-2022)
- Currently serving as one of the members of the Board of Studies for implementing and designed various Physics curriculum of M.Sc. (Nuclear & Particle Physics, High Energy Physics, Statistical Physics, Environmental Physics) as per NEP-2020 at M.S.D. Azamgarh State University, Azamgarh.
- Awarded prestigious UGC's Dr. D. S. Kothari Postdoctoral Fellowship in 2009.
- Awarded Senior Research Fellowship (SRF) by UGC, CSIR in 2008.
- Appointed as *Guest Faculty*, Department of Physics, A.M.U., Aligarh in December 2008.

# **PROFESSIONAL DEVELOPMENTS:**

• Participated in HRDC UGC sponsored refresher course (Physics) during Feb. 12-27, 2021 with grade 'A<sup>+</sup> 'at University of Lucknow, Lucknow.

- Participated in HRDC UGC sponsored orientation programme during November. 01-22, 2019 with grade 'A' at Aligarh Muslim University, Aligarh.
- Participated and successfully completed Five days Online Workshop on "Descriptive Data Analysis Using MS-Excel & SPSS Software" during June 06-10, 2022, organized by Rajiv Gandhi South Campus, BHU.
- Participated and successfully completed two weeks online Professional Development Program on "Incorporating the impact of Engineering solutions on society" conducted by University Polytechnique, Integral University, Lucknow during November 15-29, 2021.
- Participated in the National e- workshop on " ICT Pedagogical Skills During COVID-19" during (21-22 September, 2020) organized by Department of Education, Aligarh Muslim University, Aligarh.
- Attended 2-Day online workshop on "Online Teaching & E -Content Development" during 10-11, August, 2020 organized by IIDE & Department of Physics, Manipal University, Jaipur.
- Participated and successfully completed one-week online Faculty Development Program (FDP) on "Maximal Utilization of ICT Tools for Online Teaching -Learning process" during 09-13 may, 2020 organized by Dept. of Applied Sciences & Humanities, rajkiya Engineering College, Ambedkar Nagar.
- Participated in International e-Conference on "Advanced Functional Materials and Optoelectronic Devices" during June 13-15, 2020 organized by Centre for renewable Energy, Prof. Rajju Bhaiyya Institute of Physical Sciences for Study and Research (V.B.S.P.U, Jaunpur).
- Successfully attended one week FDP on "Application of Different Tools and Techniques for Academic and Research Writing and Reporting " during 18-23, May , 2020 organized by R. R. Institute of Modern Technology , Lucknow.
- Successfully attended one week online FDP on "Technical Skill Development: Need of the Hour" during 23-27, may, 2020 organized by Shaheed Mangal Pandey Govt. Girls (P.G.) College, Merrut (U.P.)

# **TEACHING EXPERIENCE:** (More than13 years)

- Undergraduate teaching: ~13 years excluding Ph. D, duration
- Post-graduate teaching: more than 4 years 06 month
- Took regular Physics classes and computational lab classes (FORTRAN Programming) at undergraduate levels and at post graduate level since 2004 to 2008 at Department of Physics, AMU, Aligarh.

# DETAILS OF EMPLOYMENT (STARTING FROM THE PRESENT POSITION):

- Currently working as Assistant Professor (Stage –II), Department of Physics, Shibli National College, Azamgarh.
- Worked as Assistant Professor, Department of Physics, Deanship of Preparatory Year, Umm-Al Qura University, Makkah, Saudi Arabia.
- Worked as Assistant Professor, Department of Applied Physics, Birla Institute of Technology, Mesra, Deoghar Campus, Jharkhand
- Worked as Research Associate in D.S.T. Funded Research Project ALICE, Department of Physics, Aligarh Muslim University, Aligarh.
- Served as Lecturer, Department of Applied Sciences & Humanities, Krishna Girls Engineering College, Kanpur.

# COURSES TAUGHT AT UNDERGRADUATE LEVEL:

General Physics & Medical Physics~6.5 years (UQU, Kingdom of Saudi Arabia)

# Engineering Physics: ~ 2.5 years (B.I.T. Mesra, Ranchi & Krishna Girls Engg. College, Kanpur)

# COURSES TAUGHT AT POSTGRADUATE LEVEL:

- (i) Nuclear & Particle Physics (ii) Thermodynamics and Statistical Physics (iii) Quantum Mechanics
- Solid and diverse academic background in General Physics, Nuclear & Particle Physics, Classical Mechanics, Solid State Physics, Physical Optics, Laser, Special theory of relativity, X–rays, Electromagnetism, Thermodynamics, Quantum Mechanics.
- Proven track record of efficient teaching, research & interpersonal skills

# **COMPUTER KNOWLEDGE:**

- 1. Working Experience in Windows/Linux Operating Systems.
- 2. Programming with FORTRAN and C/C++
- 3. Working Experience in SIMULATION Studies
- 4. Working Experience of online teaching through e-learning Pearson@Uumm Al- Qura University, Makkah, Saudi Arabia.

**RESEARCH EXPERIENCE**: (More than 13 years, excluding Ph.D. duration) Evident from List of Publications.

- Worked as Research Assistant (4 years): D.S.T. funded international Project, ALICE: From 10/4/2004 to 19/1/2008
- Research Associate (4months): D.S.T. Project, ALICE: From 22/7/2009 to 14/11/2009

## **RESEARCH PAPERS PUBLISHED/ACCEPTED/COMMUNICATED:**

- International/National Journals:26 (+ 1 communicated) ( Details are given in Annexure-I)
- International/National Conferences/Symposia: 21 (Details are given in Annexure-II)
- School/Workshop Attended National/International: 12 (Details are given in Annexure-III)
- Books/Reports published: 1(Details are given in Annexure-I)

## FOREIGN VISITS:

• Participated in 2007 CERN SCHOOL OF COMPUTING held at **Dubrovnik**, **Croatia** during 18.8.2007 to 1.9.2007

## WORKED IN ALICE (LHC, CERN, GENEVA) INDIA COLLABORATION:

I was an active member of the Department of Physics, A.M.U. Aligarh group involved in an international collaboration, code named, ALICE (A Large Ion Collider Experiment). I am also one of the authors of several publications of the ALICE Collaboration. In this collaboration about 900 Physicists/Engineers from 30 countries, including UAS, France, U.K, Italy, Germany, and Russia are involved. The main aim of the collaboration was to search for the production of Quark-Gluon- Plasma in lead-lead collisions at LHC (CERN, European Centre for Particle and Nuclear Research) energies.We, along with the High Energy Physicists group of Saha Institute of Nuclear Physics (SINP), Kolkata have designed and fabricated the Second Station of the di-muon Spectrometer for the ALICE at LHC, CERN. Various jobs which I completed with our group include software as well as hardware

aspects of the project. I actively participated in the design and fabrication of the Station Second of the Forward Di-muon Spectrometer of the ALICE detector at Saha Institute of Nuclear Physics (SINP), Kolkata, India. Secrets of nature that the LHC is likely to reveal include the origin of matter and mass, the existence of extra dimensions and the whereabouts of the dark matter and dark energy which composes approximately 96% of the universal but are invisible to the physicists today. This marvel Machine has incurred an expenditure of whopping equivalent of 50,000 crores of Indian Rupees. The main aim was to perform experiment at an energy which had never been produced with the idea that new experimentations are the backbone of scientific development.

# PUBLICATIONS NATIONAL/INTERNATIONAL:

#### Annexure-I

## Publication (American Journal of Modern Physics)

- 1. "Constant Specific Heat Approximation in Multifractal Thermodynamics in Multiparticle
- Production in Relativistic Heavy-Ion Collisions", Arshad Kamal & Mohisin Khan, Published in

A. J.M.P., 11(2), (2022) 39-45

2. "Erratic Multiplicity Fluctuation in Heavy-Ion Collisions at High Energy", M. Mohisin

Khan, D. Meer, T.Hussain, Arshad Kamal, W. Bari, Published in I. J.H.E.P., 7(2), (2020) 37-40

## Publication (International Journal of Innovative Science and Research Technology):

3."A Study of Chaotic Behaviour of Multiparticle Production in High Energy Nuclear

Interactions", M. Mohisin Khan, N. Ahmad, A. Kamal and W. Bari, Published in I.J.I.S.R.T.

#### vol. 4, Issue 10, (2019) 736-742

## Publication (Romanian Journal of Physics): (Impact Factor JCR 2016, 1.758)

- 4. "Analysis of Relativistic Nucleus-Nucleus Collisions to Search for Phase Transition "
- A. Kamal, Romanian Journal of Physics, 63,(2018) 401
- "A Study of Multiplicity Scaling in Nucleus-Nucleus Collisions" N. Ahmad, A. Kamal and M. M. Khan. Published in Springer Proc. Phys. 174 (2016) 129-134

## Publications (Acta Physica Polon. B): (Impact factor: 0.98)

- 6. "Study of Anomalous Fractal Dimensions and Scaling Exponent in Ginzburg- Landau Phase Transition in 14.5A GeV/c <sup>28</sup>Si-AgBr Interaction", A. Kamal, N. Ahmed and M. M. Khan. Acta Physica Polon Poland, B46, (2015) 8, 1549.
- "Dynamical Fluctuations and Levi Stability in 14.5A GeV/c <sup>28</sup>Si-nucleus interactions.", M. Mohsin Khan<sup>†</sup>, Shakeel Ahmad, N. Ahmad, M.D. Azmi, A. Kamal, M. Zafar and M. Irfan. Acta Physica Polon Poland, B38, (2007)2653.

## Publications (Int. J. Mod. Phys. E): (Impact Factor 0.842)

- Evidence of deconfinement phase transition in multiparticle production in relativistic nuclear collisions", A. Kamal, Shakeel Ahmad, N. Ahmad and M. Irfan. Int. Journal of Modern Phys. E 23 (2014) 1450016.
- 9. "Dynamics of fractality and phase transition in multiparticle production in relativistic nucleusnucleus collisions", **A. Kamal**, N. Ahmad, M.M. Khan, M. Zafar and M. Irfan . **Int. Journal** of Modern Phys. E 22 (2013) 1350033.

- "A comparative study of the experimental and simulated values of multifractal specific heat in 14.5A GeV/c heavy-ion collision". A. Kamal, N. Ahmad, M. M. Khan, M.D. Azmi, M. Zafar and M. Irfan. Int. Journal of Mod. Phys. E 20 (2011) 2269.
- 11."Multifractal structure in multiplicity distribution of particles produced in relativistic nuclear collisions.", N. Ahmad, A. Shakeel, M. M. Khan, A. Kamal and A. R. Khan, Int. J. M. Phys. E 17 (2008).

#### Publications (Journal of Modern Physics) (Google based impact factor 0.74)

12. "A Study of Multifractal Spectra and Renyi Dimensions in 14.5A GeV/c <sup>28</sup>Si-Nucleus Collisions", N. Ahmad, A. Kamal, M. M. Khan, Hushnud1, A. Tufail . Journal of Modern Physics, 2014, 5, 1288-1293.

#### Publications (Indian journal of Physics): (Indicate Impact factor: 0.226)

- 13. "Correlations and Fluctuations in Relativistic Nucleus-Nucleus collisions."M. M. Khan, N. Ahmad, A. Kamal, A. A. Masoodi and M. Irfan. Indian J. Phys. 85(1), 198-193, 2011
- "Rapidity Density Fluctuations in 14.5A GeV/c <sup>28</sup>Si-nucleus interactions." N. Ahmad, M.M. Khan, A. Kamal, M. Zafar and M. Irfan. Indian J. Phys. 84(12), 1641-1645, 2010.

#### Publications (Fizika B Zagreb): (Impact factor: 0.2)

15. "Signature of void probability scaling in <sup>28</sup>Si-nucleus collisions."Sh. Ahmad, A. R. Khan, A. Kamal, A. Ahmad, M. Zafar and M. Irfan. Fizika B (Zagreb) 16 (2007) 3, 159-166.

#### **Publications (JINST): (Impact factor: 0.9)**

- 16. "ALICE Experiment at the CERN LHC (ALICE Collaboration)". A. Kamal, M.M. Khan, M. D. Azmi, A. Ahmad, M. Irfan, (Aligarh Muslim Univ.) et al., JINST3:S08002 (2008)
- 17. "Alignment of the ALICE inner tracking system with cosmic ray tacks" (ALICE Collaboration"), JINST5:P03003 (2010).

#### **Publications (Euro Physics Journal): (Impact factor: 2.746)**

- 18. "Production of pions, kaons and protons in pp collisions at sqrt(s) = 900 GeV with ALICE at the LHC". ALICE Collaboration Jan 2011. 30pp., Eur.Phys.J.C71:1655, 2011.
- 19. "Charged-particle multiplicity measurement in proton-proton collisions at sqrt(s) = 7 TeV with ALICE at LHC". ALICE Collaboration 2010. 11pp. Eur.Phys.J.C68:345-354, 2010.
- 20. "Charged-particle multiplicity measurement in proton-proton collisions at sqrt(s) = 0.9 and 2.36 TeV with ALICE at LHC". ALICE Collaboration Apr 2010., Eur.Phys.J.C68:89-108,2010.
- 21. First proton-proton collisions at the LHC as observed with the ALICE detector: measurement of the charged particle pseudorapidity density at  $\sqrt{s} = 900$  GeV"., ALICE Collaboration, Eur. Phys. J. C 65: 111-125 (2010).

#### Publications (Physics Letter B): (Impact factor: 5.083)

22. "Transverse momentum spectra of charged particles in proton-proton collisions at  $\sqrt{s} = 900$  GeV with ALICE at the LHC", ALICE Collaboration, Phys. Lett. B 693: 53-68, 2010.

#### **Publications (Physics Review Letter): (Impact factor: 7.328)**

23. "Midrapidity antiproton-to-proton ratio in pp collisions at  $\sqrt{s} = 0.9$  and 7 TeV measured by the ALICE experiment", ALICE Collaboration, Phys. Rev. Lett. 105:072002, 2010.

#### **Publications (Physics Review D): (Impact factor: 4.922)**

24."Two-pion Bose-Einstein correlations in pp collisions at sqrt(s)=900 GeV", ALICE Collaboration, Phys. Rev. D 82:052001, 2010.

# Publication (Journal of Physics G): Impact factor: 3.53)

25. "Heavy flavours in ALICE" ALICE Collaboration, J. Phys. G: Nucl. Part. Phys. 36 (2009) 064053

## ALICE Technical Design Report (TDR):

26."ALICE electromagnetic calorimeter technical design report." ALICE Collaboration (P. Cortese et al.). CERN-LHCC-2008-014, CERN-ALICE-014, Sep 2008. 132pp.

#### Annexure-II

#### PAPERS CONTRIBUTED IN INTERNATIONAL/NATIONAL SYMPOSIA/CONFERENCES:

- "Multiplicity distributions in different rapidity windows in relativistic nuclear collisions" N. Ahmad, M. M. Khan, A. Kamal, S. Ahmad, A. Tufail and A. H. Naqvi XVI DAE Symposium on High Energy Physics, SINP, Kolkata, Nov. 29-Dec. 03, 2004.
- "Chaotic behaviour of multiparticle production in relativistic nuclear collisions". M. M. Khan, N. Ahmad, S. Ahmad, A. Kamal, M. Zafar and M. Irfan, ICPAQGP, VECC, Kolkata, Feb. 08-12, 2005.
- "Multifractality and Negative Binomial distribution in nucleus-nucleus collisions." N. Ahmad,
   S. Ahmad, M. M. Khan, A. Kamal, T. Ahmad and A. R. Khan, International DAE
   Symposium on Nuclear Physics held at BARC, Mumbai, December 12-16, 2005.
- 4. "Multiplicity Distribution of Particles Produced in Relativistic Nuclear Collisions." N. Ahmad,
  M. M. Khan, W. Bari and A. Kamal, International Conference on Ultra-Relativistic
  Nucleus-Nucleus Collisions held during November 14-20, 2006 Shanghai China.
- "Thermodynamical Interpretation of Fractal Nature of Multiplicity Fluctuations in Relativistic Nuclear Collisions." M. M. Khan, N. Ahmad, W. Bari, Shakeel Ahmad, A. Kamal, A. R. Khan, M. Zafar and M. Irfan, International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (Quark Matter) held during November 14-20, 2006 Shanghai, China.
- 6. "Production of Clusters and Heavy Clusters in 14.5A GeV/c <sup>28</sup>Si-Nucleus Interactions." N.Ahmad, M. M.Khan, A. Ahmad and A. Kamal, DAE Symposium on Nuclear Physics held at Sambalpur University, Burla, ORISSA, December 11-15, 2007.
- "Rapidity Density Fluctuations in 14.5A GeV/c 28Si-nucleus interactions." N. Ahmad, M. M.Khan, W. Bari, M.D. Azmi, A. Kamal and M. Irfan, International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (Quark Matter) held during February 4-08, 2008 Jaipur, India.
- "Correlations and Fluctuations in Relativistic Nucleus-Nucleus collisions." M. M. Khan, N. Ahmad, A. Kamal, A. Masoodi and M. Irfan, International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (Quark Matter) held during February 4-08, 2008 Jaipur, India.

- 9. "Scaling behavior of multiplicity distribution in relativistic nuclear collisions."N. Ahmad, M. M. Khan, Hushnood, A. Kamal, M. Irfan and M. Zafar, International Conference on Physics & Astrophysics of Quark Gluon Plasma (ICPAQGP) held during December 6-10, 2010 Goa, India.
- "Study of Phase Transition in Multiparticle Production in 14.5A GeV/c <sup>28</sup>Si-Nucleus interactions in terms of Takagi Moments". A.Kamal, Waleed J. Altaf, N. Ahmad, M. Tariq and M. Zafar, International Symposium on Nuclear Physics scheduled held during December 02-06 2013, Bhabha Atomic Research Centre, Mumbai-400 085, India.
- 11. "Dynamical fluctuations in multiplicity distribution of particles produced in relativistic nuclear collisions".M.Tariq, Hushnud, A. Kamal, Tahir Hussain, N. Ahmad, and M.M. Khan, International Symposium on Nuclear Physics held during December 02-06 2013, Bhabha Atomic Research Centre, Mumbai-400 085, India.
- "On multiplicity correlations in Relativistic Nuclear Collisions". N. Ahmad, Hushnud, M.M. Khan, A. Kamal and A. Shakeel, International Symposium on Nuclear Physics held during December 02-06 2013, Bhabha Atomic Research Centre, Mumbai-400 085, India.02-06, 2013
- 13. "Study of Forward-Backward Multiplicity Correlations in 14.5A GeV/c <sup>28</sup>Si-AgBr Collisions "N. Ahmad, Hushnud, M.M. Khan, A. Kamal and M. Irfan, DAE Symposium on Nuclear Physics held at Department of Physics and Astrophysics, University of Delhi, North Campus, December 03-072012, New Delhi- 110007, India
- "Scaling Exponent of Multiplicity Fluctuations in Ginzburg-Landau Phase Transition in 14.5A GeV/c <sup>28</sup>Si-AgBr Interactions "Arshad Kamal, N. Ahmed and M. Tariq, DAE Symposium on Nuclear Physics held at Department of Physics, Banaras Hindu University, Varansi-221005, December 8-122014, India.
- 15. "Multiplicity correlations in 60 and 200A GeV/c <sup>16</sup>O-nucleus interactions" M. Tariq, Tahir Hussain, M. M. Khan, A. Kamal, N. Ahmad and A. R. Khan, DAE Symposium on Nuclear Physics held at Department of Physics, Banaras Hindu University, Varansi-221005, December 8-122014, India.
- 16. "KNO Scaling in Hadron-Nucleus and Nucleus-Nucleus Collisions At High Energies" N. Ahmad, M.M. Khan and A. Kamal, DAE High Energy Physics Symposium, held at Physics Department, I.I.T. Guwahati during Dec 8-12, 2014.
- "Assessment of Multifractality Using Levy Stability Index in Relativistic Nuclear Collisions" Kamal and N. Ahmad, 61<sup>st</sup> DAE-BRNS Symposium on Nuclear Physics, held at SINP, Kolkata during Dec 5-09, 2016
- 18. "Modeling and Compression of Motion Capture Data", Murtaza Ali Khan, Muhammad Arif and Arshad Kamal, 14th Learning & Technology Conference, Effat University, Jeddah, Saudi Arabia, 27-28 Feb. 2017
- "Evidence of Correlation and Clusterization in Multiparticle Production in Relativistic Heavy-Ion Collisions", A. Kamal et al., 64<sup>th</sup> DAE-BRNS Symposium on Nuclear Physics, Dept. of Physics, Lucknow University, Lucknow, 23-27 Dec 2019.
- 20. "Characterization of AgBr films irradiated by high energy particles", National Conference

on Computational and Characterization Techniques in Engineering & Sciences, CCTES-19, Dept. of Applied Science & Humanities, Rajkiya Engg. College, Ambedkar Nagar, 06-07 September, 2019

 21. "Role of Science & Technology for Entrepreneurial Development in Higher Education", National Conference on Skill Development and Entrepreneurship through Resource Management: A Perspective View of New Education Policy, (NCSDERM-2022), during (29-30) March 2022 held at S.G.N. Govt. P.G. College, Muhammadabad Gohna, Mau Uttar Pradesh, India.

#### Annexure-III

#### SCHOOL/WORKSHOP ATTENDED NATIONAL/INTERNATIONAL:

- 1. "<u>2nd GIS Innovation Forum 2015</u>" held at Historical King Abdul-Aziz Hall, Umm Al-Qura University, Makkah-KSA on February 19, 2015.
- 2. "5<sup>th</sup> Saudi Science Conference" held on April 16-18, 2012 at Umm-Al Qura University, Makkah, Saudi Arabia.
- 3. "Workshop on SOFT Computing" held at BIT, Deoghar, Jharkhand-India during Sep 3-4, 2010.
- 4. *"5<sup>th</sup> Compressed Baryonic Matter(CBM)" India*n Collaboration meeting held at Department of Physics, Banaras Hindu University, during 28-29 December, 2009 Varansi-221005.
- 5. *"(Root@Heavy-Ions) International Workshop on Physics and Analysis of Hot and Dense Matter"* held at Department of Physics, Jammu University, Jammu during Feb 12-16, 2008.
- 6. *"Workshop on Hadron Physics"* held at Physics Department, A.M.U., Aligarh during Feb 18-23, 2008.
- 7. *"CERN School of Computing"* in **Dubrovnik Croatia**, from 18<sup>th</sup> August to 1 September 2007.
- 8. *"International Workshop in Large Scale Computing"* held at VECC, Kolkata during Feb. 5-10, 2006.
- 9. *"Workshop on Simulation Technique in Physics"* held at Physics Department, A.M.U., Aligarh from 20-25 March, 2006
- 10. *"Workshop on Excellence in research"*, A.M.U., from 7-11-January, 2005.
- 11. *"SERC School on Experimental High Energy Physics"* held at Punjab University, Chandigarh, during 17-28 March, 2005.
- 12. *"Workshop on Hot and Dense Matter in Relativistic Heavy-Ion Collisions"* held at Department of Physics, Jammu University, Jammu during May 5-9, 2005.

I hereby declare that all the above particulars are true to the best of my knowledge.

Date: 15, December 2022 Place: Azamgarh-UP Signature

A. Kama