



CURRICULUM-VITAE

(Updated on 01-08-2026)



- I. Name & Designation:** Dr. Prosanta Kumar Khan, Professor (HAG)
- II. Father's Name:** Late Bhupendra Nath Khan
- III. Broad Area of Specialization:** Applied Geophysics
- IV. Current Areas of Research:** Earth & Planetary System, Seismology, Geodynamics, Geothermics & Geotechnical Modelling
- V. Subjects of Teaching:** Earth & Planetary System, Geothermics & Geodynamics, Geotechnical Modelling, Strong Motion Seismology and Structural Responses, Theoretical, Observational & Computational Seismology, Research Methodology
- VI. Nationality/Religion/Sex:** Indian/Hindu/Male
- VII. Date of Birth:** Feb. 02, 1966
- VIII. Address for correspondence:** Department of Applied Geophysics
Indian Institute of Technology (Indian School of Mines), Dhanbad – 826 004, Jharkhand, India
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&
- IX. Permanent Address:** C/o Shri Anil Kumar Khan
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Dist. – Murshidabad, West Bengal, India
- X. SC/ST/OBC/GEN:** General

XI. Details of Ph.D. Award:

Degree	University/Institute	Year of Passing	Subject	Title of the Ph.D. Thesis
Ph.D.	Indian School of Mines	2000	Seismotectonics & Geodynamics	Evolving Trends of Seismicity in India and its Neighborhood

XII. Educational Qualification:

Exam. Passed	University/Institute	Subject	Year of Passing
M.Sc. Tech. in Applied Geophysics	Indian School of Mines	Applied Geophysics	1992
B.Sc. Hons. Physics	University of Calcutta	Physics (Hons.), Chem., Maths, English.	1987

XIII. Employment Record:

Sl. No.	Name and Addresses of Employer	Post Held	Temp./ Permnt.	Period From To	Nature of Duties
1.	Indian Indian Institute of Technology (ISM), Dhanbad, Jharkhand	Professor (HAG)	Permanent	Dec. 26, 2023 - Contd.....	Research, Teaching and Development
2.	Indian Indian Institute of Technology (ISM), Dhanbad, Jharkhand	Professor	Permanent	Jan. 20, 2016 - Contd.....	Research, Teaching and Development
3.	Indian School of Mines, Dhanbad, Jharkhand	Associate Professor	Permanent	Feb. 15, 2010 - Jan. 19, 2016	Research, Teaching and Development
4.	Indian School of Mines, Dhanbad, Jharkhand	Assistant Professor	Permanent	Feb. 15, 2007 - Feb. 14, 2010	Research, Teaching and Development
5.	Council of Scientific and Industrial Research, New Delhi	Scientist	Temporary	Feb. 17, 2004 - Feb. 14, 2007	Research and Teaching
6.	Deptt. of Science and Technology, New Delhi	Scientist	Temporary	Jan. 23, 2001 Jan. 22, 2004	Research and Teaching
7.	Department of Earthquake Engineering, University of Roorkee, Roorkee	Fellow 'A'	Temporary	Nov. 06, 1997 Sept. 30, 2000	Research

XIV. Research/Teaching Experience:

Research Experience: ~ 34 years

Post-doc Experience: ~ 08 years

Teaching Experience: ~ 22 years

XV. M.Sc. Tech./Integrated M.Sc. Tech/M.Tech. Dissertation Project Supervision:

Completed: 100, On-Going: 06, No. of External Ph.D. Thesis Reviewed: 13

XVI. Publication Details:

No. of Research Papers Published in SCI Journals: 60

No. of Research Papers Published in non-SCI Journals/Special/Conference Proceeding Volumes: 28

No. of Abstract Published in Volumes of International Symposia/Workshop/Seminar/Conference: 24

No. of Abstract Published in Volumes of National Symposia/Workshop/Seminar/Conference: 38

Total Citation (as per Google Scholar): 1317, h-index: 23, i10-index: 44

Total Citation (as per Web of Science): 1013, h-index: 19

XVII. Administrative and Other Scientific/Technical Responsibilities Performed:

- o HoD, Department of Applied Geophysics, 2021-22
- o Chief Hostel Warden, 2016-2018
- o Member, House Allotment Committee, IIT(ISM), Dhanbad, 2016-18
- o Joint Secretary in Basant Reunion, 2012
- o Member of the Committee of ISM M.Sc./M.Sc. Tech. Entrance Examination, 2008-09
- o Chairman, Member, DST FIST Project, 2021-22
- o DPGC Convener, Revision of All the Courses of the Dept. of Applied Geophysics and Introduction of Several New Papers., 2018-20
- o In-Charge, ISM Seismological Observatory, 2007-21
- o Introduction 2-year M.Tech. Course on “Earthquake Science and Engineering” designing all the contents, 2015
- o Coordinator, 2-year M.Tech. Course on “Earthquake Science and Engineering”, 2015-17
- o Establishment of Absolute Gravity Station at the Premises of ISM Seismological Observatory, 2014
- o BOCS Chairman for Pre-final Year Applied Geophysics Students, 2012-13
- o Field In-Charge for Three Weeks Winter Training to More Than 60 Students of Pre-final Year Applied Geophysics at Bakreswar, W.B. and IIT(ISM), Dhanbad, 2010 & 2021
- o Imparting Winter Field Training to More Than 60 Pre-final Year Applied Geophysics Students at Rajganj, UCIL, Thakurkuli and Tundi Areas (4-field seasons).
- o In-Charge and Establishment of Permanent GPS Station at the Premises of ISM Seismological Observatory, 2010
- o Training and Placement In-Charge, 2011-13
- o Faculty Advisor, 2009-11
- o Member, IIT(ISM) Senate, 2016-Contd...

XVIII. Conferences/Seminar/Symposia/Workshop/Summer/Winter Courses Organised:

- o Coordinator: Summer Course on “Basic Geophysical Techniques”, Jan. 18-25, 2015.
- o Convener: National Conference on “Emerging Trends in Geophysical Research for Make-in-India (ETGRMI-2018)”, March 09-11, 2018.
- o Convener: National Workshop on “Earthquake Preparedness and Mitigation Measures: Are We Ready”, March 21, 2025.
- o Convener: Centenary National Seminar on “Strong Motion Earthquake: Structural Response Modelling and Aided Designing”, March 21-23, 2025.

XIX. Details of R & D Sponsored Projects:

Funding Agency	Tenure	Working Place	Project Title	Outlay (Lakhs)	Status
Science and Engineering Research Board, Govt. of India, New Delhi	2024 – Contd...	Indian Institute of Technology (ISM)	Long-Term Stress Field Perturbation and Stress Modeling Along the Myanmar-Andaman-Sumatra Subduction Margin	27.02	PI
University Grants Commission, Govt. of India, New Delhi	2018 – 2022	Indian Institute of Technology (ISM)	Low-cost Array-based Earthquake Early Warning for Eastern India	143.12	PI

Dept. of Science and Technology, Govt. of India, New Delhi	2013 – 2017	IIT(ISM) & ISM	Geodynamic Modeling of the Eastern Subduction Margin of India	31.23	PI
Ministry of Earth Sciences, Govt. of India, New Delhi	2011 – 2014	Indian School of Mines	Setting up, operation and maintenance of GPS station at Indian School of Mines, Dhanbad	17.63	PI
Ministry of Earth Sciences, Govt. of India, New Delhi	2009 – 2012	Indian School of Mines	Monitoring and study of local seismicity of the Eastern Indian shield region	11.15	PI
Ministry of Earth Sciences, Govt. of India, New Delhi	2009 – 2012	Indian School of Mines	Finite element stress modeling of the subducting Indian lithosphere and the overlying structures in northeast part of India	16.19	PI
Minor Research Project, MHRD, Govt. of India, New Delhi	2007 – 2009	Indian School of Mines	Mapping of seismic b-value and its correlation with Bouguer gravity anomaly over the northeast India	0.40	PI
Council of Scientific and Industrial Research, Govt. of India, New Delhi	2004 - 2007	Indian School of Mines	Poly-phase Tertiary Development of the Himalayas and Surrounding Regions Implications for the Recent Trends of Seismicity in India	~ 8.00	PI
Dept. of Science and Technology, Govt. of India, New Delhi	2001 - 2004	Indian School of Mines	Evolving seismicity in India and its adjoining regions in the 20 th century	9.12	PI

XX. Prizes/Awards/Honours:

"Pool Scientist, 2004", Council of Scientific and Industrial Research, Govt. of India, New Delhi

"Young Earth Scientist, 2000", SERB, Department of Science and Technology, Govt. of India, New Delhi.

Award: Adjudged One of the Best Four Participants in DST Sponsored 2nd SERC School (SEP-II) During April 14 to May 4, 1994 Held at Banaras Hindu University, Varanasi.

Award: Adjudged One of the Best Four Participants in DST Sponsored 3rd SERC School (SEP-III) During Sept. 23 to Oct. 12, 1996 Held at Indian School of Mines, Dhanbad.

XXI. Details of PhD Supervision Completed:

Sl. No.	Name of the Students	Title of The Thesis	Status	Date of Award	Sole Guide/Principal Guide/Co-guide
1.	Dr. Himangshu Sekhar Mandal	Seismic behavior of the subsurface geomorphic features over the central part of India	Awarded	10-10-2013	Principal Guide
2.	Dr. Md Afroz Ansari	Geodynamics Status of the Central Orogenic Segment between Darjeeling and Himachal Himalayas	Awarded	13-03-2014	Sole Guide
3.	Dr. Sushmita Sinha	Neotectonics of the Kachchh Basin and Its Implication For Seismotectonic Activity	Awarded	07-8-2014	Co-guide

4.	Dr. Sandeep Kumar Aggarwal	Seismotectonic and precursor studies in Gujarat and adjoining regions	Awarded	08-02-2016	Sole Guide
5.	Dr. Butchi Babu Bongu	Seismotectonic and precursor studies in Gujarat and adjoining regions	Awarded	23-03-2018	Principal Guide
6.	Dr. Sk Shamim	Evolving Dynamics and Kinematics along the Andaman-Sumatra Margin	Awarded	04-04-2018	Principal Guide
7.	Dr. Koushik Biswas	Modeling of seismogenesis of earthquakes occurring in two intraplate zones in India	Awarded	27-07-2020	Principal Guide
8.	Dr. Kuntal Bhukta	Study of lithospheric dynamics and seismic hazard in the Eastern Indian Shield region	Awarded	15-03-2021	Principal Guide
9.	Dr. Rashmi Singh	Study of Seismotectonics and Seismogenesis of the Eastern Indian Shield Region	Awarded	18-11-2021	Principal Guide
10.	Dr. Niladri Bhattacharjee	Evolution of the Habo Dome and adjacent areas in the Kachchh Inland Basin, Gujarat, India	Awarded	16-03-2022	Co-guide
11.	Dr. S Vishal Gupta	Site-Specific Seismic Hazard Study of the Kashmir Basin, Northwest Himalaya	Awarded	28-04-2023	Principal Guide

Number of On-Going PhD: 04

XXII. Research Interest:

- Seismic Wave Attenuation and Study of Seismic Anisotropy
- Earthquake Source Kinematics and Dynamics
- Seismotectonic Modeling
- Lithospheric Deformation
- Plate Kinematics and Dynamics
- Origin and Evolution of the Lithospheric Stress Field
- Subduction Dynamics vis-à-vis Back-Arc Tectonics
- Seismic b-value, Earthquake Hazard Assessment and Mitigation
- Statistical Analysis of Earthquake Time-Series, Earthquake Forecasting, Prediction and Earthquake Early Warning
- Geothermal Source Characterization
- Near Surface Geophysics and Geotechnical Modelling

XXIII. Research Publications:

RESEARCH ARTICLES IN SCI JOURNALS				
SL. NO.	Average Impact Factor: 3.4 (as per 2024 report, https://jcr.clarivate.com/)			I.F. (Q1-4)
60.	Seal, A., Sahoo, S., Peresan, A., Khan, P.K. , Jana, N., 2025. Statistical analysis on background seismicity of Southern California region: application of nearest neighbour declustering and network analysis. Journal of Seismology, 29, 485-503.			1.3 Q3
59.	Kumar, V. Khan, P.K. , Sarkar, R., Pal, S.K., 2024. Seismic hazard assessment of Faizabad region of Uttar Pradesh, India,			2.1 Q3

	utilizing deterministic and probabilistic approaches. Journal of Earth System Science, 138, 8.		
58.	Gupta, S.V., Parvez, I.A., Khan, P.K. , 2023, Site response analysis beneath the Kashmir basin (NW Himalaya) using ambient noise, Earthquake Spectra, http://doi.org/10.1177/87552930231195640	3.9	Q2
57.	Gupta, S.V., Parvez, I.A., Khan, P.K. , 2022, Imaging subsurface geological complexity (2D/3D) beneath the Greater Srinagar region of the Kashmir basin, Northwest Himalaya, Near Surface Geophysics, 2022. doi: 10.1002/nsg.12186	1.4	Q3
56.	Bhukta, K., Paul, A., Khan, P.K. , 2022, SKS and SKKS Splitting Measurements Beneath the NW Himalaya, Pure and Applied Geophysics, 179, 641–661, https://doi.org/10.1007/s00024-021-02935-4 .	2.1	Q2
55.	Gupta, S.V., Parvez, I.A., Ankit, Khan, P.K. , Chandra, R., 2021, Site Effects Investigation in Srinagar City of Kashmir Basin Using Microtremor and Its Inversion, Journal of Earthquake Engineering, https://doi.org/10.1080/13632469.2020.1816232 .	2.9	Q2
54.	Butchibabu, B., Khan, P.K. , Jha, P.C., 2021, Geophysical investigations for stability and safety mitigation of regional crude-oil pipeline near abandoned coal mines, Journal of Geophysics and Engineering, 18, 145–162, https://doi.org/10.1093/jge/gxab003	2.0	Q3
53.	Shamim, S., Khan, P.K. , Mohanty, S.P., Mohanty, M., 2021, Andaman–Nicobar–Sumatra Margin Revisited: Analysis of the Lithospheric Structure and Deformation Based on Gravity Modeling and Distribution of Seismicity, Surveys in Geophysics, 42, 239–275, https://doi.org/10.1007/s10712-021-09633-9	6.2	Q1
52.	Khan, P.K. , Mohanty, S.P., Chakraborty, P.P., Singh, R., 2021, Earthquake shocks around Delhi-NCR and the adjoining Himalayan front: A seismotectonic perspective, Frontiers in Earth Science, 9, 598784. https://doi.org/10.3389/feart.2021.598784	2.3	Q3
51.	Singh, R., Khan, P.K. , 2021, Crustal configuration and seismic stability of the Eastern Indian shield and adjoining regions: Insights for incidents of great earthquakes in the Nepal-Bihar-Sikkim Himalaya, Frontiers in Earth Science 9, 586152. https://doi.org/10.3389/feart.2021.586152	2.3	Q3
50.	Singh, R., Singh, A.P., Khan, P.K. , Pandep, A.P., 2021, Investigation of shallow structures using ambient seismic noise data recorded at permanent broadband seismic stations in the Eastern Indian Shield and adjoining regions. Environmental Earth Sciences, 80, 129, https://doi.org/10.1007/s12665-021-09385-0 .	3.3	Q2
49.	Khan, P.K. , Bhukta, K., Mandal, P., 2020, Estimation of source parameters of local earthquakes based on inversion of waveform data, Current Science, 119, 1159-1168, https://doi.org/10.18520/cs/v119/i7/1159-1168 .	0.9	Q3
48.	Khan, P.K. , Shamim, S., Mohanty, S.P., Aggarwal, S.K., 2020. Change of stress patterns during 2004 MW 9.3 off-Sumatra mega-event: Insights from ridge–trench interaction for plate margin deformation, Geological Journal, 55, 372-389, https://doi.org/10.1002/gj.3419	2.6	Q2
47.	Singh R., Khan, P.K. , Singh A.P., 2020, Earthquake source dynamics and kinematics of the Eastern Indian Shield and adjoining regions, Acta Geophysica, 68, 337-355, https://doi.org/10.1007/s11600-020-00418-z .	2.4	Q2
46.	Singh, R., Sharma, S., Mitra, S., Khan, P.K. , 2019, Mapping of Coda-Wave Attenuation and Its Frequency Dependency Over Eastern Indian Shield, Pure and Applied Geophysics, 176, 5291–5313, doi.org/ 10.1007/ s00024-019-02284-3	2.1	Q2
45.	Biswas, K., Mandal, P., Khan, P.K. , 2019, Estimation of coda Q for the eastern Indian craton, Journal of Earth System Science, 128, 109, https://doi.org/10.1007/s12040-019-1140-7 .	2.1	Q3
44.	Butchibabu, B., Khan, P.K. , Jha, P.C., 2019, Foundation Evaluation of a Repeater Installation Building using Electrical	0.7	Q4

	Resistivity Tomography and Seismic Refraction Tomography, Journal of Environmental and Engineering Geophysics, 24, 27–38, https://doi.org/10.2113/JEEG24.1.26 .		
43.	Shamim, Sk, Khan, P.K. , Mohanty, S.P., 2019, Stress reconstruction and lithosphere dynamics along the Sumatra subduction margin, Journal of Asian Earth Sciences, 170, 174–187, https://doi.org/10.1016/j.jseaes.2018.11.008 .	2.4	Q2
42.	Butchibabua, B., Khan, P.K. , Jha, P.C., 2019, Foundation evaluation of underground metro rail station using geophysical and geotechnical investigations, Engineering Geology, 248, 140-154, https://doi.org/10.1016/j.enggeo.2018.12.001 .	10.3	Q1
41.	Khan, P.K. , Banerjee, J., Shamim, Sk, Mohanty, M., 2018, Long-term seismic observations along Myanmar–Sunda subduction margin: insights for 2004 $M_w > 9.0$ earthquake, International Journal of Earth Sciences, 107, 2383–2392, https://doi.org/10.1007/s00531-018-1603-0 .	1.9	Q3
40.	Bhukta, K., Khan, P.K. , Mandal, P., 2018, Upper mantle anisotropy inferred from shear wave splitting beneath the Eastern Indian Shield region, Geoscience Frontiers, 9, 1911-1920, https://doi.org/10.1016/j.gsf.2017.12.003 .	12.7	Q1
39.	Khan, P.K. , Ansari, A., Singh, D., 2017, Insights into the great Mw 7.9 April 25, 2015 Nepal earthquake, Current Science, 113, 2014-2020.	0.9	Q3
38.	Butchibabu, B., Sandeep, N., Sivaram, Y.V., Jha, P.C., Khan, P.K. , 2017, Bridge pier foundation evaluation using cross-hole seismic tomographic imaging, Journal of Applied Geophysics, 144, 104–114, http://dx.doi.org/10.1016/j.jappgeo.2017.07.008 .	2.6	Q2
37.	Aggarwal, S.K., Pastén, D., Khan, P.K. , 2017, Multifractal analysis of 2001 Mw7.7 Bhuj earthquake sequence in Gujarat, Western India, Physica A, 488, 177–186, http://dx.doi.org/10.1016/j.physa.2017.06.022 .	3.3	Q2
36.	Khan, P.K. , Shamim, Sk, Mohanty, M., Kumar, P., Banerjee, J., 2017, Myanmar-Andaman-Sumatra subduction margin revisited: insights of arc-specific deformations Myanmar-Andaman-Sumatra subduction margin revisited: insights of arc-specific deformations, Journal of Earth Science, 28, 683–694, http://dx.doi.org/10.1007/s12583-017-0752-6 .	4.8	Q1
35.	Yadav, R.K., Roy, P.N.S., Gupta, S.K., Khan, P.K. , Catherine, J.K., Prajapati, S.K., Kumar, A., Puviarasan, N., Bhu, H., Devachandra, M., Malik, J., Kundu, B., Debbarma, C., Gahalaut, V.K., 2017, Rupture model of Mw 7.8 2015 Gorkha, Nepal earthquake: Constraints from GPS measurements of coseismic offsets, Journal of Asian Earth Sciences, 133, 56-61, http://dx.doi.org/10.1016/j.jseaes.2016.04.015	2.4	Q2
34.	Catherine, J.K., Uma Maheshwari, D., Gahalaut, V.K., Roy, P.N.S., Khan, P.K. , Puviarasan, N., 2017, Ionospheric disturbances triggered by the 25 April, 2015 M7.8 Gorkha earthquake, Nepal: Constraints from GPS TEC measurements, Journal of Asian Earth Sciences, 133, 80-88, http://dx.doi.org/10.1016/j.jseaes.2016.07.014 .	2.4	Q2
33.	Khan, P.K. , Mohanty, S.P., Sinha, S., Singh, S., 2016, Occurrences of large-magnitude earthquakes in the Kachchh region, Gujarat, western India: Tectonic implications, Tectonophysics, 679, 102–116, http://dx.doi.org/10.1016/j.tecto.2016.04.044	2.4	Q2
32.	Aggarwal, S.K., Khan, P.K. , Mohanty, S.P., Roumelioti, Z., 2016, Moment tensors, state of stress and their relation to faulting processes in Gujarat, western India, Physics and Chemistry of the Earth, 95, 19-35, http://dx.doi.org/10.1016/j.pce.2016.01.004 .	4.6	Q1
31.	Aggarwal, S.K., Khan, P.K. , 2016, Q_{Lg} tomography in Gujarat, Western India, Physics and Chemistry of the Earth, 95, 135-149, http://dx.doi.org/10.1016/j.pce.2015.12.003 .	4.6	Q1
30.	Khan, P.K. , Bhukta, K., Tarafder, G, 2016, Coda Q in Eastern Indian Shield, Acta Geodaetica et Geophysica, 51, 333–346, http://dx.doi.org/10.1007/s40328-015-0129 .	2.6	Q2

29.	Telesca, L, Lovallo, M, Aggarwal, S.K., Khan, P.K. , Rastogi, B.K., 2016, Visibility Graph Analysis of the 2003–2012 Earthquake Sequence in the Kachchh Region of Western India, <i>Pure and Applied Geophysics</i> , 173, 125–132, http://dx.doi.org/10.1007/s00024-015-1034 .	2.1	Q2
28.	Telesca, L, Lovallo, M, Aggarwal, S.K., Khan, P.K. , 2015, Precursory signatures in the visibility graph analysis of seismicity: An application to the Kachchh (Western India) seismicity, <i>Physics and Chemistry of the Earth</i> , 85-86, 195-200, http://dx.doi.org/10.1016/j.pce.2015.02.008 .	4.6	Q1
27.	Aggarwal, S.K., Lovallo, M., Khan, P.K. , Rastogi, B.K., Telesca, L, 2015, Multifractal detrended fluctuation analysis of magnitude series of seismicity of Kachchh region, Western India, <i>Physica A</i> , 426, 56-62, http://dx.doi.org/10.1016/j.physa.2015.01.049 .	3.3	Q2
26.	Hainzl, S., Aggarwal, S.K., Khan, P.K. , Rastogi, B.K., 2015, Monsoon-induced earthquake activity in Talala, Gujarat, India, <i>Geophysical Journal International</i> , 200, 627–637, http://gji.oxfordjournals.org/content/200/1/627 .	2.8	Q2
25.	Sharma, N.K., Khan, P.K. , Bhukta, K.K., 2015, Nature of the Moho in the mid-eastern part of the Chotanagpur Plateau, India, from a receiver function perspective, <i>Arabian Journal of Geosciences</i> , 8, 5669-5675, http://dx.doi.org/10.1007/s12517-014-1648-8 .	1.83	Q3
24.	Ansari, M.A., Khan, P.K. , Tiwari, V.M., Banerjee, J., 2014, Gravity anomalies, flexure, and deformation of the converging Indian lithosphere in Nepal and Sikkim–Darjeeling Himalayas. <i>International Journal of Earth Sciences</i> , 103, 1681–1697, http://dx.doi.org/10.1007/s00531-014-1039-0 .	1.9	Q3
23.	Khan, P.K. , Ansari, M.A., Mohanty, S., 2014, Earthquake source characteristics along the arcuate Himalayan belt: geodynamic implications. <i>Journal of Earth System Science</i> , 123, 1013–1030, http://dx.doi.org/10.1007/s12040-014-0456-6 .	2.1	Q3
22.	Ansari, M.A., Khan, P.K. , 2014, Occurrences of damaging earthquakes between the Himachal and Darjeeling Himalayas: tectonic implications. <i>Acta Geophysica</i> , 62, 699-736, http://dx.doi.org/10.2478/s11600-013-0190-5 .	2.4	Q2
21.	Mandal, H.S., Khan, P. K. and Shukla, A.K., 2014, Soil responses near Delhi ridge and adjacent regions in Greater Delhi during incidence of a local earthquake, <i>Natural Hazards</i> , 70, 93-118, http://dx.doi.org/10.1007/s11069-012-0098-4 .	4.5	Q1
20.	Mandal, H.S., Khan, P.K. and Shukla, A.K., 2013, Shear wave attenuation characteristics over the Central India Tectonic Zone and its surroundings, <i>Journal of Asian Earth Sciences</i> , 73, 440-451, http://dx.doi.org/10.1016/j.jseaes.2013.05.020 .	2.4	Q2
19.	Mandal, H.S., Shukla, A.K., Khan, P.K. and Mishra, O.P., 2013, A new insight into Probabilistic seismic hazard analysis for Central India, <i>Pure and Applied Geophysics</i> , 170, 2139-2161, http://dx.doi.org/10.1007/s00024-013-0666-x .	2.1	Q2
18.	Khan, P. K. , Chakraborty, P.P., Tarafder, G. and Mohanty, S., 2012, Testing the intraplate origin of mega-earthquakes at subduction margins, <i>Geoscience Frontiers</i> , 3, 473–481, http://dx.doi.org/10.1016/j.gsf.2011.11.012 ,	12.7	Q1
17.	Khan, P. K. , Ghosh, M., Chakraborty, P.P. and Mukherjee, D., 2011, Seismic b-value and the assessment of ambient stress in Northeast India, <i>Pure and Applied Geophysics</i> , 168, 1693–1706, http://dx.doi.org/10.1007/s00024-010-0194-x .	2.1	Q2
16.	Khan, P. K. , Mohan, A. and Chowdhury, S., 2012, Pre- and post-seismic activities along the Myanmar-Andaman-Sumatra Subduction Margin: insights for tectonic segmentation, <i>Journal of Indian Geophysical Union</i> , 16, 71-80.	0.3	Q4
15.	Khan, P. K. , 2011, Role of unbalanced slab resistive force in the 2004 off Sumatra mega-earthquake ($M_w > 9.0$) event, <i>International Journal of Earth Sciences</i> , 100, 1749–1758. http://dx.doi.org/10.1007/s00531-010-0576-4 .	1.9	Q3
14.	Kayal, J.R., Srivastava, V.K., Kumar, P., Chatterjee, R. and Khan, P. K. , 2011, Evaluation of crustal and upper mantle structures using receiver function analysis: ISM broadband observatory data, <i>Journal of the Geological Society of India</i> , 78,	1.2	Q3

	76-80, http://dx.doi.org/10.1007/s12594-011-0069-5 .		
13.	Khan, P. K. , Mohanty, S. and Mohanty, M., 2010, Geodynamic implications for the 8 October 2005 North Pakistan earthquake, <i>Surveys in Geophysics</i> , 31, 85–106, http://dx.doi.org/10.1007/s10712-009-9083-1 .	6.2	Q1
12.	Kayal, J.R., Srivastava, V.K., Bhattacharya, S.N., Khan, P. K. and Chatterjee, R., 2009, Source parameters and focal mechanisms of local earthquakes: single broadband observatory at ISM Dhanbad, <i>Journal of the Geological Society of India</i> , 74, 413-419, http://dx.doi.org/10.1007/s12594-009-0144-3 .	1.2	Q3
11.	Chakraborty, P. P., and Khan, P. K. , 2009, Cenozoic geodynamic evolution of the Andaman Sumatra subduction margin: a current understanding, <i>Island Arc</i> , 18, 184-200, http://dx.doi.org/10.1111/j.1440-1738.2008.00641.x	0.8	Q4
10.	Khan, P. K. , and Chakraborty, P. P., 2009, Bearing of plate geometry and rheology on shallow-focus mega-thrust seismicity with special reference to 26 December 2004 Sumatra event, <i>Journal of Asian Earth Sciences</i> , 34, 480-491, http://dx.doi.org/10.1016/j.jseaes.2008.07.006 .	2.4	Q2
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5. **Khan, P. K.**, and Chakraborty, P.P., 2005, How far interplate coupling is responsible for large thrust earthquakes along subduction margin? in abstract of the National Seminar on East Crust, Department of Applied Geophysics, Indian School of Mines, Dhanbad, p. 25.
4. **Khan, P. K.**, 2003, Study of the occurrences of two recent damaging earthquakes and their aftershocks in the Central Himalaya, in abstract of the National Symposium on Developments in Geophysical Sciences in India, BHU, Varanasi, 114-116.
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2. Wason, H. R., Sharma, M. L., **Khan, P. K.**, Kapoor, K., Nandini, D. and Kara, V., 2000, Broadband Seismic Recording of the Chamoli Earthquake of March 29, 1999 and its Aftershock sequence, in A Report on Chamoli Earthquake of March 29, 1999, Department of Earthquake Engineering, University of Roorkee, India, 45-61.
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XXIV. Life Membership:

- Journal of Himalayan Geology, Dehradun
- Journal of the Indian Geophysical Union, Hyderabad
- Indian Geological Congress, Roorkee

- Journal of the Indian Society of Earthquake Technology, Roorkee

XXV. Major Achievements in Research:

- Model for stress perturbation at the converging lithosphere along subduction margins surrounding India was proposed.
- The relationship between the Bouguer gravity anomaly and seismic b-value has been analyzed for Northeast India, and found to be inversely varied.
- Origin of the core of the Hindukush-Pamir-Karakoram converging zone has been resolved through our study.
- Seismotectonic model for northwesterd widening of the Himalayan orogeny was proposed during the analysis of 2005 Mw 7.5 Kashmir earthquake.
- A duplex telemetry seismic network was installed in 1999 in the Kumaun Himalaya under the Himalayan seismicity programme of Department of Science & Technology, Govt. of India, New Delhi, and still actively working and monitoring the earthquake activities in Central Himalaya.
- Study on the Late Tertiary episodic development of Myanmar subduction zone was carried out, and proposed an evolutionary model.
- A model for the two-phase opening of the Andaman Sea was proposed, and the old idea was discarded.
- Evolutionary strain-hardening model behind the generation of mega-earthquakes along the subduction margins around the globe was proposed.
- The role of plate driving forces behind the occurrences of subduction zone mega-earthquake was proposed.
- Model for genesis of the great damaging earthquakes at Bhuj area, Gujarat was proposed, and a long-standing problem was resolved.
- Model for occurrences of great earthquake in the Himalaya was proposed.
- Detailed analysis of time-series of 2001 Mw 7.7 Bhuj aftershock sequences was carried out.
- Seismic wave attenuation studies for the western, central and eastern India were carried out.
- Soil response for NCT of Delhi has been analyzed.
- Geotechnical investigations for tunnel, bridges, coal-mines were carried out.
- Tectonic understanding for the recent Delhi earthquake sequence was analyzed, and a genetic link between the Bhuj and Delhi earthquakes sequences was found.

XXVI. International Collaboration:

1. On-Going Collaborative Project Entitled “Lowcost-based Earthquake Early Warning for Eastern India” between Tel Aviv University and IIT(ISM), Dhanbad Since August 27, 2018, PI: Prof. P.K. Khan, IIT(ISM), India and Dr. Gilles Hillel Wust-Bloch, TAU, Israel
2. Research Activities Under MoU Between Department of Applied of Applied Geophysics, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand, India and OGS-Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Sgonico (Trieste), Italy. Scientific Reference Persons: Prof. P.K. Khan from IIT(ISM), India and Dr. Antonella Peresan and Dr. Franco Pettenati from OGS, Italy
3. Country Visited: United States of America, Austria, Italy, Israel, Nepal


Prof. (HAG) Prosanta Kumar Khan
(Name & Signature)

Date: August 01, 2026
Place: IIT(ISM), Dhanbad, Jharkhand