CV

Dr A S Venkatesh, Professor (Higher Academic Grade)
Department of Applied Geology
Indian Institute of Technology (Indian School of Mines), Dhanbad, India
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https://people.iitism.ac.in/~download/publication/164/164.pdf

Summary of CV

1	Name	Prof (Dr) A S Venkatesh
2	Date of Birth	01.05.1958
3	Current Position and Year of Joining in ISM and scale of pay	Professor (2010) ; 16.01.1991 and Prof (HAG) 2021-contg. PB-15
4	Qualifications;	M. Sc (AU); Ph. D (National Geophysical Research Institute, Hyderabad) and post-doc (ISM).
5	Subjects taught:	Ore Geology, Mineral Exploration, Environmental Geology and related subjects
6	Field of Specialisation	Metallogeny, concept based exploration, environmental aspects and characterization for amenability for beneficiation
7	Current research thrust areas	Gold-PGE, Iron, Cu ore metallogeny and implications for beneficiation and environmental aspects.
8	Research Projects handled/ Research Publications (R &D)	DST, CSIR, DST –FIST Level-II, Co-Coordinator (Rs. 2, 38, 00, 000 + for others Pl see Annexure.
9	M Tech and Ph. D guidance	M Tech: ~20; Ph. D: 15
10	Foreign visits/assignments	USA (Water-Rock interaction conference), Netherlands, UK (lectured at Southampton on lode gold deposits of India), Australia (BHP Billiton sponsored technology visit and resource person for low grade iron ores)
11	Distinctions/Awards/Fellowships/Honours	- CSIR Fellowship/RA; - Geohost award 2000 (not availed); - Contact member for India: Intl Liaison group on gold mineralization, UK; - Member: IGCP-540 Project -Team Member: European Commn. Project -Elsevier's most downloaded papers J Asian Earth Sci; - National Recruitment process (confidential) -Editorial board member: Intl J Earth Sci&Engg Jharkhand spl issue ; Journal of ISM Asia-Oceania Geoscience AOGC-Session Co-Convener- Co-convener: AOGS Conf and GTFM conf. 2010. Member, Exploration and Research Advisory Committee, Eastern Region (ERAC), AMD, Dept of Atomic Energy, Jamshedpur, 2011-2014. Resource Person-**BARC Training School**,(AMD), Hyderabad, 2014-2015. Organizing committee Member-**Asian Current Research on Fluid Inclusions** VI (ACROFI-VI), 2016. National Geosciences Award Committee Member (Confidential), 2017. **Best paper award** given to my co-author- Dr (Ms) Abhyarthana Patnaik- Indra Mohan Thapar Research Award (IMTR award for best paper for student) for our multi-disciplinary work along with FMME dept. 2019. Steering Committee Member, National Center for Mineral Targeting

		(**NCMT**), Ministry of Mines, Govt. of India; 2019-2020. BOCS, Nagaland University, Manipur University and Sikkim University 2021- contg. PMRF selection committee, 2020-2021 Pan-IIT JAM Syllabus Revision committee Member 2021. JAM confidential committee, 2022. Faculty scrutiny member: Anna Univ, IITB Ph D examiner: AU, OU, NIT Jamshedpur, Gitam Univ, Jammu Univ, Utkal Univ, NGRI, IITM, IITR, BHU etc.
12	Industry-Academic interaction/Industrial consultancies	-BHP Billiton sponsored Australia trip and visited for tech discussions and as a resource person; -International EDP course for, IMMM, BCSIR, Bangladesh scientists on Ore Mineralogy and Mining (CO-CI) along with Mining Engg -INFOSYS- Off campus EDP course in Hyderabad along with Mining Engg Off campus course on fundamentals of Mining and exploration to iGATE professionals at Pune in 2013 -**Industrial consultancies conducted ~ 30**(Tata Steel, Mumbai Customs, SAIL, NTPC,CIL, MOIL, L &T, SGS Ltd, etc) on various ore/coal/Environmental related problems
13	Administrative responsibilities	Professor-in-Charge, Training and Placement, ISM Chairman: M.Sc/M.Sc Tech/M.Phil EE-2013 &2014 Vice Chairman: M Sc Tech Entrance Exam-2011 &2012 Course Coordinator: M Tech Mineral Exploration (1996-1998); Faculty-in-Charge: Placement/Applied Geology; Lab In-Charge: Ore Geology and Mining Geology Conf. Organising Secretary etc, Advisory Member for national and international conferences HOD, Dept of Applied Geology, IIT (ISM)
14	Short courses/Conferences conducted	06 (1 Intl. +1 UGC Refresher Course+ 2 Off-campus)+ Tata
15	Committees of External bodies	**National:** -Member, **Exploration and Research Advisory Committee**, Eastern Region, **AMD**, Dept of Atomic Energy, Jamshedpur, Dec. 2011-2014. Member, Selection Committee for Faculty selection of some universities/institutes (confidential) -Member, **Selection Committee for Asst and Associate Professors** -**Advisory** Board Member, **UGC SAP** Committee, Madras University, Chennai appointed by UGC, since 2013. -**Member, Board of Studies**, Sikkim University, Gangtok, since 2013. -**Member, Selection Committee, A CSIR institute** -Member Selection Process, A public sector coal company -**Chairman**, Microscope purchase Committee, **CIMFR,**2013. -**Member,** IGCP- 540 National Working Group on Lode Gold Deposits. -**Resource Person, Geological Survey of India and AMD/BARC** - **Project Reviewer**- Ministry of Earth Sciences, DST, CSIR &South Africa **International:** **-CO- CI: Bangladesh Council of Scientific and Industrial Research** scientists EDP course on Ore Mineralogy and Mining (along with Mining EnggDept). -**Resource Person, BHP Billiton**, Australia, 2004. -**Co-Convener, Asia Oceania Geosciences Society**, 2010. -**Reviewer of International journal papers of Elsevier and Springer Verlag journal publishers.** **-Reviewed a Scientific project** "Investigation of invisible gold mineralization in sulphide ores in the Witwatersrand basin**"** for a joint research grant under the National Research Foundation **(NRF) (South Africa) /JSPS (Japan**) Scientific cooperation agreement. (07-08-2008). Active collaboration with Cameroon Univ, Univ College of London etc. Editorial Board Member: Frontiers in Earth Science
16	Additional information	Reviewer of several external Ph. D theses, UPSC, Intl and natl journals, DST, CSIR project reviews.

Detailed CV

Academic Qualification (Undergraduate Onwards)

S. No.	Degree	Year	Subjects	University/ Institution	Class
1.	B.Sc.	1978	Geology Major	Andhra University, Visakhapatnam, AP	First
2.	M.Sc.	1980	Geology	Andhra University, Visakhapatnam, AP	First
3.	Ph.D.	1987	Geology	**National Geophysical Research Institute, Hyderabad** and submitted to Andhra University	-
4.	Post-Doctoral Studies (PDF/RA)	1987-1990	Geology	Indian School of Mines, Dhanbad	-

Work Experience (in chronological order)

S. No.	Positions held	Name of the Institute	From	To	Pay Scale & Basic Pay
1	Professor (Higher Academic Grade)	IIT(ISM) Dhanbad	2021	Contg.	PB-V- Scale-15
2	Professor	IIT(ISM) Dhanbad	01.01.2010	Contg.	PB-14 A
3	Associate Professor	Indian School of Mines, Dhanbad	01.01 2006	Contg.	PB-14
4	Assistant Professor	Indian School of Mines, Dhanbad	22.02-2000	31.12.2005 (as per MHRD notif.)	Rs.12, 000-420-18, 300/-
5	Lecturer (Sr. Scale)	Indian School of Mines, Dhanbad	16.01.1996	21.02.2000	Rs. 3000-100-5000), (unrevised, equivalent to Rs. 10,000/- basic in the revised scale)
6	Lecturer	Indian School of Mines, Dhanbad	16.01.1991	15.01.1996	Rs. 2200-75-4000 (unrevised, equivalent to Rs. 8000/- basic in the revised scale

Details of Administrative experience (IIT-ISM)

Sl. No.	Name of the Position hold	Duration		Years of Experience
		From	To	
1	Coordinator, 2 yr M Tech Mineral Exploration programme	2008	2009	2
1	**Vice Chairman- M Sc/M. Sc Tech Entrance Examination, IIT (ISM)**	2011	2012	2
2	**Chairman- M Sc/M.Sc Tech/ M. Phil Entrance Examination, IIT (ISM)**	2013	2014	2
3	**Prof-in-Charge (Chairman-CDC), Training and Placement, IIT (ISM), now CDC**	2014	2016	2
4	**Chairman-JEE Advanced IIT (ISM)**	2016	2018	2
5	**Head of the Department**	2018	2021	3+

Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S. No.	Name of Award	Awarding Agency	Year
1	Geohost award	IGC	-
2	ISM Post-Doctoral Fellowship	Indian School of Mines, Dhanbad	1987
3	CSIR Fellowship (JRF and SRF)	Govt of India	1982-1987

Special Awards/Honours received, if any:

Year	Name of Award/Honour	Name of Organization
2010	Asia-Oceania Geoscience AOGC-Session Co-Convener-	Asia Oceania Geoscience Conference (AOGC) Singapore
2011-2014	Member, Exploration and Research Advisory Committee, Eastern Region (ERAC), AMD, Dept of Atomic Energy, Jamshedpur	Atomic Minerals Directorate for Research and Exploration (AMD), Ministry of Atomic Energy, Govt. of India
2014-2015	Resource Person-**BARC Training School**,(AMD), Hyderabad	BARC Training School, Hyderabad, Ministry of Atomic Energy, Govt. of India
2016	Organizing committee Member-**Asian Current Research on Fluid Inclusions** VI (ACROFI-VI)	IIT Bombay
2017	National Geosciences Award Committee Member (Confidential)	MoM, Govt. of India
2016-2018	UPSC Paper setter (confidential assignment as subject expert)	UPSC, Govt. of India
2017-2018	UCG SAP Advisory Board Member, Madras University	UGC, Delhi
2019	**Best paper award** given to my co-author- Dr (Ms) Abhyarthana Patnaik- Indra Mohan Thapar Research Award (IMTR award for best paper for student) for our multi-disciplinary work along with FMME dept.	IIT (ISM) Dhanbad
2019-contg	Steering Committee Member, National Center for Mineral Targeting (**NCMT**), Ministry of Mines, Govt. of India	Ministry of Mines, Govt. of India, Delhi
2019	BOCS, Nagaland University and Sikkim University	
2019-2021	PMRF selection committee	
2021	JAM Syllabus Revision committee Member	Other members from IITB (Chair), IITR, IITKGP, IISC
2022	JAM confidential committee	Pan IITs and IISC
2022	Malaviya Postdoc selection committee	BHU, Varanasi

Membership of Professional Bodies:

Name of the Body	Status of Membership: Life / Annual
Geological Society of America Resource Geology, Japan Geological Society of India	Annual Annual Annual

Lab Development:

Currently Faculty- in- charge of Ore Geology, Mining Geology and Fluid Inclusion Laboratory. Developed substantial microscopy facilities for the students and for research purpose. As HOD, overseen the development of Petrology, geochemistry, Engineering Geology, Remote Sensing & GIS, Micropaleontology and Petroleum Geology, Economic Geology, Museum and other labs of the Dept of Applied Geology including DST FIST equipment as coordinator.

Ph. D guidance by Prof A S Venkatesh- 15 (+) Ph D's guided

S. No	Name of the Student	Title of the Ph. D. thesis	Guides	Year of Award/ submission
1	Dr. Indranil Saha, **Full Time, ISM JRF**	Metallogenitic modeling of the Gold deposits at Hutti-maski schist belt, Karnataka.	Sole Guide	2001
2	**Dr. Sahendra Singh**, Associate Prof., IIT (ISM) & A Dean (Fac)	Metallogenetic studies of Gold mineralization in Sonakhan greenstone belt, Central India.	Sole Guide	2007
3	Dr Subrata Roy, **NML**, Jamshedpur	Mineralogical characteristics and their effects on the beneficiation performance of iron ores from Jilling-Langalata iron ore deposits, eastern India.	Sole Guide from ISM	2010
4	Dr. R K Upadhyay, Chief Geologist, **Tata Steel** and currently Director, GRM Resources, Indonesia	Ore Geological aspects of Iron and Manganese mineralization in Khondbond-Joda region, Eastern India with emphasis on metallogenetic controls and exploration.	Sole Guide from ISM	2011
5	**Dr. Prabodha R Sahoo**, **Full Time, SRF, ISM, c**urrently Asst. Prof., IIT (ISM)	Metallogenetic aspects of gold mineralization in and around Kundarkocha area of the Singhbhum orogenic belt, eastern India.	Sole Guide	2012
6	Dr. Ajay Kumar, Scientist-G, **Atomic Minerals Directorate and Exploration**, Jamshedpur	Geological, petrological and geochemical characterisation of radioactive quartz-pebble conglomerates (QPC) along western margin of Bonai granite, Sundergarh district, Orissa.	Sole Guide from ISM	2013
7	Dr. Sanjoy. K. Sarkar, Chief Geologist **Manganese Ore (India) Limited** (MOIL)	Manganese Ore Deposit of Balaghat Mines, Central India: Evolution Model and it's Implication for Exploration.	Co-Guide and Prof S Mohanty Guide	2014.
8	Dr. Rahul Mukherjee, **ISM SRF**- Full Time & currently working as Asst Prof, Central Univ, Punjab.	Controls and genesis of gold mineralization, Western India	Sole Guide from IIT(ISM)	2017
9	Dr. Rambabu Singh, Manager (Geology), CMPDI, Part -Time	Environmental impact of coal mining on hydrogeological regime in parts of Korba Coal field, Central India and possible remedial measures	Prof A S Venkatesh, Guide & Co-guide, Dr T H Syed, Assoc. Prof/IIT (ISM)	2017
10	Dr. Jitendra Prasad,	Ore Geological aspects of Iron	Prof A S Venkatesh	2018

	Manager (Geol), **SAIL**	mineralization in and around Kiriburu-Meghahatuburu and Bolani regions, Singhbhum orogenic belt, India with emphasis on metallogenetic controls and exploration.		
11	Dr Rajarshi Chakravarti **Full Time, IIT (ISM) SRF, currently working as Asst Prof, IIT Roorkee**	Genesis of Gold Mineralization associated with Archean Quartz-Pebble-Conglomerates (QPC) in and around the Eastern Iron Ore Group, Singhbhum Craton, Eastern India	Prof Sahendra Singh -Guide and **Prof A S Venkatesh, Co-guide**	Ph D **Oct, 2020**
12	Dr. Suresh Kumar, CGWB, Patna	Geochemical behaviour of Fluoride contamination in Groundwater, its distribution And mobilization in and around Jamui, indo - gangetic alluvial Plains, Bihar, India	Guide from AGL and Prof G Udayabhanu is Guide from App Chemistry	**Ph.D. Nov, 2020**
13	Dr. Vivek K Sengar, JRF, Indian Institute of Remote Sensing, Dehradun	Multispectral remote sensing and reflectance spectroscopy for exploration targeting around Mundiyawas-Khera copper Deposit in Alwar basin, Rajasthan, India	Sole Guide from IIT (ISM)	**2020**
14	Mr. Israil Khan, Superintending Geologist, GSI, SU Odisha Part -Time	Metallogenetic significance and exploration strategies of copper-gold mineralization near Mundiyawas-Khera area, Alwar Basin, Rajasthan, western India	Guide: Dr P R Sahoo, Asst Prof/ISM & Prof A S Venkatesh, Co-guide	**2021**
15	Mr Janmejay Sahoo, Sr Geologist, GSI, Hyderabad Part-Time	Evolution of base metal and precious metal mineralization in parts of Alwar Basin, Rajasthan, western India	Guide: Dr P R Sahoo, Asst Prof/ISM & Prof A S Venkatesh, Co-guide	Ph D thesis submitted **2022**
16	Mr. Hrishikesh Kumar, Scientist, Space Application Center, Ahmedabad. Part-Time	Analysis of Earth Surface Dynamics for monitoring Land Water Storage Variations using Space Based Observations	Guide: & Prof A S Venkatesh, Co-guide- Dr T H Syed, IIT Kanpur	Ph D thesis writing is in progress
17 & 18		Two more full time Ph D students, Mr Yudhishter Mohanta and Mr Chittaranjan Mahanta are working on chromite and iron ore metallogenesis, exploration and beneficiation respectively.		

Details of Post-Doctoral Mentoring

S. No	Name of the Student	Title of the PDF project	Mentorship	Year of Joining
1	**Dr. Shayantani Ghosal, Ph.D., IIT, KGP.**	Mineralogical characterization and provenance studies for REE Minerals along Odisha and A.P. coast: Implications for exploration.	**Sole**	**2021-2022**

Dissertation Project Guidance: Ph D guidance (15+ details given); M Tech (~15) and M Sc tech and Int M Sc Tech (~30+)

Details of Sponsored Externally funded Projects (R & D)

Sl. No.	Project Title	Amount in ₹ (Lakh)	Role (PI/ Co-PI)	No. of Co-PIs	Funding Agency	Duration	Status (Completed/ Ongoing)
1	Geochemical, petrogenetic and metallogenitic study of Malanjkhand and Dongargarh Supergroup volcanics and plutons along Dongargarh Kotri mobile belt with insights from LA-ICPMS data of relict magmatic minerals	Rs. 23,38,000/- - Applied and under review	Co-PI	PI: Prof Sunil Khare, UPES, Dehradun	DST (SERB)	3 Yrs	**Submitted -2022**
1	Metallogenetic Evolution of Gold (+PGE) Mineralization with implications for crust-mantle processes, invisible gold and the role of organic matter linked to mineralization events in parts of Archean Singhbhum organic belts.	**Rs. 51, 80, 240.00/- (Rupees Fifty one lakhs, eighty thousand and two hundred and forty only)**	**PI**	One Co-PI	**DST SERB-CRG** (DST No: CRG/2019/005503) IIT (ISM) Project No. (DST(SERB)(251)/2019-2020/700/AGL)	Three Years Date of Start 12.02. 2020	**Ongoing**
2	Evaluation study of the Central Sector Schemes for their continuation beyond 2019-2020	33, 30, 000.00/- **(Rupees Thirty Three lakhs and thirty thousand only)**	Member (CO-PI)	3 Co-PIs and One PI from MIN	**Ministry of Coal Project** No: MoC(3)/201-2020/693/ME	06 months, effective from 21.10.2019	**Submitted 2021.**
3	Financial Assistance as FIST programme "Augmentation of rock/ore/coal/kerogen characterization and processing facility"	Rs. 2, 38, 000, 00/- **(Rupees Two Crores and Thirty Eight Lakhs only)**	Co-PI	2 Co-PIs and One PI	**DST FIST LEVEL-II**	05 Years 23.08.2013 - 22.08.2018	Completed in 2019
4	Geological CO_2 removal.CO_2-Geologicalstorage: Research in to monitoring and verification technology (CO_2ReMoVe)	Approx.73000/- Euros	Team Member	Dr Emily F M Elewaut, Hollond-PI Prof A K Varma Team Leader from India and Prof A S Venkatesh, Team Member from India	European Commission Funded project	2009 & extended up to 2013	Completed 2013

5	Fluid inclusions in orogenic Au deposits	Funding is limited to the PI and to GSI	Team Member Represented ISM	Dr Paulo S Garafalo, Univ of Bologna, Italy, PI Prof B Mishra, IITKGP and others	UNESCO-International Geological Correlation Programme (IGCP-540)	2009-2012	2012 completed
6	Metallogenic Evolution of Gold-Copper mineralization in the Sakoli Group. 1999-2003.	Rs. 11.95 lakhs.	**Sole Project Investigator (PI)**	**NIL**	DST-DCS (Deep Crustal Studies) Schemee. ESS/16/112/98	3 Years-	2001 Completed
7	Geochemical Characteristics of Dongargarh Volcanics and its implications for the crust-mantle process: Perspectives from relict clinopyroxene chemistry.	Rs. 4.5 lakhs.	CO-PI	Nil- and one PI	**CSIR Project**[CSIR.24 (0215) 92/ EMR-II-	3 Years-	1995 Completed

Details of Outreach Programs (PDPs/MDPs/Conference/Seminars Organized):

Sl. No.	EDP/PDP Title	External Funding in ₹ (Lakh)	Funding Agency	Role (CI/ Co-CI)	No. of Co-CI	Duration	Status
1	Two weeks Professional Development Programme on Advanced Geological Technology" for Tata Steel Executives , **2019-2020**	**Rs. 22, 00, 000/- (Rupees Twenty Two Lakhs only)**	Tata Steel	**CI**	3 Co-CI (MKM SSH PRS)	2 weeks	**2020**
2	Professional Development (PDP) Course on Rock mechanics in hard rock mining/geological aspects	**1,52,92,800/- including service taxes for 24 weeks**	Hindustan Zinc (Vedanta)	Co-CI	One PI and five Co-PIs from Mining Engg dept	24 Weeks Intensive PDP Module I: Basic Course with Field Applications (03.09.2018 to 23.11.2018 - 12 weeks) Module II: Advanced Course with Field Applications (07.01.2019 to 29.03.2019 - 12 weeks)	Completed
3	Off campus course for iGATE executives on geological aspects for mining and mineral Industry at Pune	**Rs. 1,68, 540/-** (Rupees one lakh , sixty eight thousand and five hundred and forty only)	iGATE	**CI**	One more CI	5-day off campus course (Total period along with ME & FME) 2013-2014	Completed

Continuing education/ Specialist/EDP/PDP courses conducted (earlier conducted PDPS are shown here in addition to the already shown PDPs/EDPS

i) Coordinator of UGC Refresher course for university teachers: Coordinated one UGC Refresher course for university teachers on "Coal and Mineral Exploration" held on 15-03-1998 to 04-04-1998 in the Department of Applied Geology, Indian School of Mines, Dhanbad.; ii) Jointly conducted an International EDP programme with Dept of Mining Engg for Scientists/Geologists/Engineers of Bangladesh Council of Scientific and Industrial Research (BCSIR) on " Ore Mineralogy and Mining"; iii) Jointly conducted an off-campus course along with Dept of Mining Engg on "Fundamentals of Mining" to Infosys technologists, Hyderabad.

Details of Industry –Academic Interaction (Consultancy Projects, Industrial Applications) since 2010

Sl. No.	Name of Consultancy	Amount in ₹ (Lakh)	Role (PI/ Co-PI)	No. of Co-PIs	Funding Agency	Duration	Status (Completed / Ongoing)	Innovation, Product Developed, New Knowledge, Industrial Applications
1	Determination of specialized rock tests for Tunnel Boring Machine application in Pakaldul Hydel Project	1, 11, 000/-	Co-PI	1 PI	L & T Construction	6 months + 6 months	(first phase report submitted)	Determination of TBM related specialized tests (Rock Characterization)
2	Mineralogical characterization & transmissivity properties of altered and unaltered Khondalite rock and bauxite (CONS/4078/2018-19)	2,21,840.00	Co-PI	1	Utkal Alumina Ltd.	3 months	Completed	Product development process and industrial application
2	Mineralogical characterization and determination of UCS of iron samples and implication for mineral beneficiation (CONS/4037/2018-19)	2,20,000.00	PI	2	SGS Pvt. Ltd	4 months	Completed	Product development process and industrial application
3	Mineralogical characterization of heavy mineral concentrate of beach placers with special reference to monazite content concentration (CONS/3857/2018-19)	2,36,000.00	PI	1	SGS Pvt. Ltd	3 months	Completed	Product development process and industrial application
4	Mineralogical Characterization of Bauxite ore from Utkal Alumina International Ltd. (CONS/3577/2017-18)	1,99,420.00	Co-PI	1	Utkal Alumina Ltd.	2 months	Completed	Product development process and industrial application

5	Detailed mineralogical Characterization of Managers Ores of MOIL Ltd (CONS/3581/2017-18)	3,22,000.00	PI	1	MOIL Ltd.	4 months	Completed	Industrial application
6	Detailed Mineralogical Characterization of Manganese Ores of MOIL (CONS/3388/2016-17)	80,500.00	Co-PI	1	MOIL Ltd	3 months	Completed	Product development process and industrial application
7	Reserve estimation of material available at Khanak stone mines, Bhiwani district, Haryana (CONS/3419/2016-17)	5,25,000.00	PI	2	HSIIDC, Govt of Haryana	6 months	Completed	New Knowledge and industrial application
8	Moh's hardness test determination for garnet sand (CONS/3388/2016-17)	57,500.00	Co-PI	1	SGS Pvt. Ltd	1 month	Completed	Industrial applications
9	Bulk density estimation and characterization of iron ores (CONS/3341/2016-17)	9,99,350.00	PI	1	Tata Steel Ltd.	12 months	Completed	New Knowledge and industrial application IBM requirement
10	Moh's hardness test determination for garnet sand (CONS/3284/2016-17)	57,500.00	Co-PI	1	SGS Pvt. Ltd	1 month	Completed	Product development process and industrial applications
11	Characterization of Iron Ore samples (CONS/3172/2016-17)	85,875.00	Co-PI	1	SGS Pvt. Ltd	2 months	Completed	Industrial applications/ explorations/ beneficiation
12	Characterization of Chromite Ores (CONS/3070/2015-16)	9,12,000.00	PI	1	Tata Steel Ltd.	1 year	Completed	Industrial application
13	Mineralogical characterization of low grade Iron Ore samples and Implication for Liberation studies (CONS/2977/2015-16)	1,14, 000.00	PI	1	SGS Pvt. Ltd	1 month	Completed	Product development/ industrial application
14	Mineralogical Characterization of Chromite ore samples with a view to beneficiation. (CONS/2935/2015-16)	4,27,500.00	PI	1	Tata Steel Ltd	6 months	Completed	Product development and industrial application
15	Mineralogical characterization of Manganese ore Fines	1,14,607.00	PI	1	SGS Pvt. Ltd	1 month	Completed	Industrial application and product development

	(CONS/2506/2014-15)							
16	Mineralogical/ Petrographic Studies on Zinc concentrate and Rock Phosphate ores (CONS/2329/2013-14)	1,50,000.00	CI	0	M/S Vimta Labs, Hyderabad	3 months	Completed	Product development/ industrial applications
17	Mining and Mining Geological aspects of , Bharatpur OCP, Talchir coal mine, MCL ; Cons/2208/2013-14	22,00,000.00	Co-CI	2	MCL, Bharatpur OCP, Talchir	1 year	Completed	Industrial applications/ new knowledge
18	Ore Characterisation of low-grade iron ores, BHJ and Laterite; (CONS/1903/2012-2013)	1 50, 000/-	CI	0	SGS Pvt. Ltd	3 months	Completed	Industrial application
19	Geological Survey of India, Kolkata, Evaluation of the XI Plan schemes of GSI continuing to XII Plan Period; (CONS/2011/2012-13)	22, 47, 200/-	Co-CI	2	Geological Survey of India, Ministry of Mines, Govt of India	1 year	Completed	New knowledge for exploration
20	Slake Durability study to be used in ash dyke bund/embankments	22,060.00	Co-CI	1	NTPC	1 month	Completed	Product development/ New knowledge
21	Size analyses and Jigging of iron ore fines from Barbil	22,060.00	Co-CI	1	Bengal Energy Pvt Ltd, Kolkata	1 month	Completed	Product development
22	Vetting of DMG Report on A concise study report on the iron ore deposits of leasehold areas of SAIL in west Singhbhum Dist	03, 86, 050/-	Co-CI	2	DMG, Govt of Jharkhand	3 months	Completed	New knowledge and industrial application for exploration
23.	CONS/1079/10-11 (Mineralogical study free silica in iron ore mines)	040, 000/-	CI	2	Tata Steel	1 month	Completed	Product development/ Industrial applications

Adoption of Innovation in teaching practices

Significant contributions in Teaching:

The significant contributions of my teaching at IIT (ISM) involves design and development of some key courses viz., ore geology in which a) the fluid inclusion thermometry practical classes have been added, b) the process mineralogy as applied for the beneficiation of ores have also been incorporated in the course structure, c) Mass balance calculations for monitoring the gains/losses of hydrothermal alterations and their utility in the water-rock interactions have also been developed. I have also been teaching environmental geology to the postgraduate applied geology students in which the evaluation of acid-base accounting resulting from mine waste has been developed.

Courses developed/taught for UG/PG :

PG

I. **M. Tech (Mineral Exploration)** intake of students through GATE, Exploration Techniques and Environmental Planning for Mining

II. M. Tech (Engineering Geology) intake of students through GATE, Environmental Geo Technology for Engg Geologists

- **III. M. Sc. Tech (Applied Geology)** (intake of students through JAM and **Integrated M Tech Applied Geology** (intake of students through JEE Adv) Ore Geology , Environmental Geology, Geochemical Analytical Techniques, Petroleum Geology, Precambrian Stratigraphy etc

IV. M. Sc (Tech) Applied Geophysics

- stratigraphy, Introductory Physical Geology course. Economic Geology and Fuel Geology

V) B.Tech (Petroleum Engineering, Mining and Mineral Engg and all first year B Tech students.)

- Economic Geology, Physical Geology, Introductory Mineralogy, Petrology, Structural Geology, Petroleum and Fuel Geology., Earth System Science etc.

V) Ph D course work: Geology of Natural Resources 2022.

Future Plans for teaching and research

Future Plans:

Conceptualized certain definite plans for orienting research studies in the areas of mineralogical and geochemical characterization of mine waste and evaluation. Conducting empirical studies on some of Archean gold + PGE deposits in an ongoing DST SERB-CRG research project granted in 2019 to investigate on the Au and PGE deposits. Intend design new courses on environmental aspects, exploration geochemistry, industrial mineral resources etc. Work towards the Institute- industry interaction and develop the labs. International collaborative research study on Primordial Life and Banded Iron Formations/Cherts is planned in association with University College of London with Prof Dominic Papinaeu and submitted a research proposal as a part of a team member to NERC, Canada to unravel the history of primordial life evolution, organic matter vis-a-vis mineralization. Intend to develop some new courses in exploration techniques using remote sensing (hyper spectral data) and ground based data, ore systems modelling, mass balance calculations for alteration zone mapping, low temperature environmental and medical geological problems associated with fluoride contamination of ground water are some of the planned teaching components. Modern techniques in geochemical exploration using hyperspectral remote sensing and GIS on water and mineral exploration.

Salient Aspects of my Research Highlights

Invisible gold and multi-stage evolution of gold mineralization in wide-ranging environments: *This work focussed on the fundamental concepts of source, transport and deposition of gold from Archean Hutti-Maski gold deposit and the lattice-bound gold within sulphides from Sakoli Au mineralised belt, central India as first reports. Mesothermal gold mineralisation occurs in Hutti-Maski within smoky quartz-sulfide veins as i) lattice-bound invisible gold restricted to shear fractures as part of the primary gold depositional history in the first stage and ii) native gold as refractory substrates and as the main lode in the later stages*

Role of Carbon vis-à-vis gold mineralization from Kundarkocha gold deposit, Singhbhum orogenic belt, eastern India: *Lithological, EPMA, Laser Raman Spectroscopy on fluid inclusions associated with gold mineralization, Total Carbon (TC), Total Organic Carbon (TOC) and FTIR results suggest that the gold mineralization is spatially and genetically associated with carbon-rich material like graphitic schist, carbonaceous phyllite/black shale that are constituted of immature organic carbon (OC).* At least part of the organic material acted as a possible source for reduction which aided in the precipitation of gold.

Mineralogical and geochemical constraints on the formation of blue dust and iron ores from Banded Iron Formations from eastern India and implications for beneficiation of low-grade ores: *Different types of iron ores including the hard massive ores and blue are intimately associated with BHJ. Geochemical and field observations indicate that the Blue Dust in these deposits is regarded to be of supergene-modified hydrothermal origin. In the first stage, the early hydrothermal process affects the primary unaltered Banded Iron Formation by simultaneously oxidising magnetite to martite and replacing quartz with hydrous iron oxides. In the second stage, the supergene processes upgrade the hydrous iron oxides to fine grain microplaty haematite. Minerological characterisation of low-grade iron ores with deleterious elements like phosphorous and alumina yielded iron enrichment after suitable beneficiation experiments after a careful process mineralogical study*

QPC Hosted Uranium Mineralization:

Besides, my research has also been focused on the QPC-hosted uranium deposits along Bonai granite, eastern India. These studies have been substantiated by publications from time to time. The studies conducted are of both basic/fundamental scientific attributes as well applied aspects related to economic/ore geology by guiding students and supporting industry as when required as currently working in an Applied Geology Department, IIT (ISM).

Other information

Prof A S Venkatesh is working as a faculty member in the Department of Applied Geology, Indian Institute of Technology (Indian School of Mines), Dhanbad since 1991. Prof Venkatesh completed Ph. D from National Geophysical Research Institute, Hyderabad/Andhra University, Visakhapatnam in 1987 and later joined ISM as a research associate (did post-doctoral study on Malanjkhand Cu-Mo±Au deposit at ISM), subsequently joined as a faculty member. His current research interests are ore/economic geology (Lode gold deposits in particular, the refractory lattice-bound invisible gold, origin and evolution of BIF and iron ores, basemetals, exploration and characterization of low-grade ores and amenability of ores for beneficiation) and environmental geological aspects (low temperature geochemistry of coal mine dumps/arsenic/fluoride contamination of ground water-medical geology and carbon dioxide sequestration, mining geology and geological aspects of slope failure in coal mines).

Prof Venkatesh teaches ore geology, exploration techniques, geochemical exploration and environmental geology subjects to post graduate (M. Sc Tech and M. Tech and undergraduate students (B.Tech- Mining, Petroleum and Mineral Engineering students). Dr Venkatesh handled DST, CSIR sponsored research projects and participated in **International projects such as UNESCO-IGCP-540 and European Commission** as a team member representing India. Dr Venkatesh has travelled to several countries (USA, UK, Netherlands, Australia etc) to present his work and has been a resource person to **BHP Billiton to deliver lectures as a Resource Person by a special invitation and entire support by BHP in Australia, besides delivered lectures at Southampton University, UK and USA for a presentation on DST sponsored work on Sakoli gold mineralization in New York state in Water-Rock Interaction conference.** Prof Venkatesh is having an active collaboration with several researchers abroad and with Prof Dominc Papinue, Univ College of London submitted a research proposal to NERC Canada as a team member.

Besides he also handles several industrial consultancy projects as part of Academia-Industry interaction as part of economic geological obligations to serve the industry problems He is a member of several national committees including Board of studies and Faculty selection committee member, Sikkim University, faculty selection committee member, Sambalpur University, resource person to Geological Survey of India, UGC SAP advisory expert to Madras University on SAP programme and Exploratory and Research Advisory Committee (ERAC) Member of Atomic Minerals Directorate and Exploration, Eastern India and resource persons to newly recruited scientists of BARC school, AMD and in selection committee of PMRF. Prof. Venkatesh is a steering committee member of **National Center for Mineral Targeting, Ministry of Mines, and Government of India**. He is evaluator of a project on refractory gold from Govt of South Africa.

Research Publications of **Prof A. S. Venkatesh**, Professor, Department of Applied Geology, Indian Institute of Technology (Indian School of Mines), Dhanbad

Research Interests: Ore Geology, Environmental Geology, Medical Geology, Mining Geology and Mineral Exploration

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e. **Google Scholar Citations:** http://scholar.google.co.in/scholar?hl=en&q=A+S+Venkatesh+Indian+School+of+Mines&btnG=
f. **Vidwan Database:** http://vidwan.inflibnet.ac.in/searchr.php?id=44324

Refereed Journals (* Corresponding author)

2022 (Contg.)

1 Chakravarti., R., Frimmel, H. E., Singh, S., Barla, A., **Venkatesh, A. S** and Balakrishnan, S. **(2022).** A geochemical and mineral chemical assessment of sediment provenance and post-depositional alteration of auriferous conglomerates in the Singhbhum Craton. **J. Geochemical Exploration.** 107095. https://doi.org/10.1016/j.oregeorev.2022.105125. **Impact Factor. 4.166. Q2.**

2 Prasad, J., **Venkatesh, A. S***., and Sahoo, P. R. **(2022).** A Submarine Hydrothermal Origin of Banded Iron Formations from Archean Kiriburu-Meghahatuburu iron ore deposit, Singhbhum Craton, eastern India. **Ore Geology Reviews**. https://doi.org/10.1016/j.oregeorev.2022.105125. **Impact Factor. 3.714. Q1.**

3 Sahoo, J., Sahoo, P. R., Khan, I. and Venkatesh, A. S. **(2022).** Facies variations of felsic volcanic rocks around Mundiyawas-Khera copper deposit, Alwar Basin, North Delhi Fold Belt, western India. J. Geol. Soc. India (Accepted for publication).

4 Pathakamuri, P.C., Villuri, V.G.K., Pasupuleti, S., Banerjee, A and **Venkatesh, A.S**. **(2022)**. A holistic approach for understanding the status of water quality and causes of its deterioration in a drought-prone agricultural area of Southeastern India. **Environ. Sci. Pollut. Res.** https://doi.org/10.1007/s11356-022-22906-z, **Impact Factor. 5.190., Q2.**

5 Kumar, S., Singha S., Singh, R · **Venkatesh, A. S.*** and Gogoi U. **(2022).** A knowledge-driven multi-criteria decision making- Analytical Hierarchy Process based geospatial modeling for the delineation of fluoride contamination zones in groundwater, Jamui district, Indo-Gangetic alluvial plains, India. **Groundwater for Sustainable Development**, 18, 100795, https://doi.org/10.1016/j.gsd.2022.100795

6 Sahoo, J., Sahoo, P.R., Khan, I. and **Venkatesh, A.S. (2022).** Insights into the Metallogenesis of the Felsic Volcanic Hosted Mundiyawas-Khera Cu Deposit, Alwar Basin, Western India. **Minerals** 2022, 12, 370. https:// doi.org/10.3390/min12030370. **Impact Factor. 2.380. Q2.**

7 Khare, S. K., Asthana, D. and **Venkatesh, A. S. (2022).** Petrogenetic insights from relict augites in Neoarchean Kotima basalt of Dongargarh Supergroup, Bastar Craton, Central India. **Journal of Earth System Science.** https://doi.org/10.1007/s12040-021-01747-3. SCI. **Impact Factor. 1.371. Q4.** (Springer).

8 Kumar, S. Singh, R · **Venkatesh, A. S.*** Udayabhanu, G and Singh, T. B. N. **(2022)**. Assessment of Potentially Toxic Elements Contamination on the Fertile Agricultural Soils within Fluoride-Affected Areas of Jamui District, Indo-Gangetic Alluvial Plains, India. **Water Air Soil Pollution** (An International Journal of Environmental Pollution), DOI: https://doi.org/10.1007/s11270-021-05488-3. SCI. **Impact Factor. 2.520. Q2.** (Springer).

9 Singha, S. S. Singha, S. Pasupuleti, S. and **Venkatesh, A. S. (2022).** Knowledge-driven and machine learning decision tree-based approach for assessment of geospatial variation of groundwater quality around coal mining regions, Korba district, Central India. **Environmental Earth Sciences.** 81:36. https://doi.org/10.1007/s12665-021-10147-1. SCI. **Impact Factor. 1.871. Q2. (**Elsevier).

10 Kumar, H, Syed, T. H. Amelung, F, Agrawal, R and **Venkatesh, A. S. (2022).** Space-time evolution of land subsidence in the National Capital Region of India using ALOS-1 and Sentinel-1 SAR data: Evidence for groundwater overexploitation. **Journal of Hydrology**, 605, 127329. DOI: https://doi.org/10.1016/j.jhydrol.2021.127329. SCI. **Impact Factor. 6.703. Q1.** (Elsevier)

2021

11. Kanouo, N. S. Kouske, A. P. Ngueutchoua, G., Venkatesh, A.S., Sahoo, P. R., and Basua, E. A. A. (2021). Eoarchean to Neoproterozoic Detrital Zircons from the South of Meiganga Gold-Bearing Sediments (Adamawa, Cameroon): Their Closeness with Rocks of the Pan-African Cameroon Mobile Belt and Congo Craton. **Minerals,** 11, 77. https://dx.doi.org/10.3390/min11010077. SCI. Impact Factor. 2.380. Q2.

12. Singh, R., **Venkatesh, A.S*.**, Sudhakar, Ch., Sethy S N and Prasad Babu, K. **(2020).** Exploration for strategic placer mineral deposits in a fluctuating shoreline: Depositional environment and mineralogical characterization of the NE Odisha coast placers, India. **Ore Geology Reviews**, Vol. 127, DOI NO: https://doi.org/10.1016/j.oregeorev.2020.103850, SCI, Impact Factor: 3.387, **Q1.**

2020

13. Sharma, J.P., Sahoo, P.R., Mahanta, H., **Venkatesh, A. S**., Babu, E. V. S. S. K. and John, M. M. **(2020)** Constraints on the genesis of the Proterozoic bornite dominated copper deposit from Nim ka Thana, western India: An IOCG perspective. **Ore Geology Reviews,** Vol. 118, DOI NO: https://doi.org/10.1016/j.oregeorev.2020.103338 SCI, Impact Factor: 3.387, **Q1**
14. Sengar, V., **Venkatesh, A.S.*,** Champati Ray P.K, Sahoo, P. R., Khan I and Chattoraj, S. L. **(2020)** Spaceborne mapping of hydrothermal alteration zones associated with the Mundiyawas-Khera copper deposit, Rajasthan, India, using SWIR bands of ASTER: Implications for exploration targeting. **Ore Geology Reviews**, Vol. 118, DOI NO: https://doi.org/10.1016/j.oregeorev.2020.103327 SCI, Impact Factor: 3.387, **Q1.**

2019

15. Kumar, S., Singh, R., **Venkatesh, A.S***., Udayabhanu, G and Sahoo, P. R. **(2019)** Medical Geological assessment of fluoride contaminated groundwater in parts of Indo-Gangetic Alluvial plains. **Scientific Reports Nature** (https://doi.org/10.1038/s41598-019-52812-3). SCI. **Impact Factor: 4. 011.,Q1**

16. Khatun, M., Singh, S., Chakravarti, R and **Venkatesh, A. S. (2019)** Genetic constraints and possible mechanism of gold mineralization within the carbonaceous metasedimentary units of the Dalma volcano-sedimentary Belt, North Singhbhum Mobile Belt, eastern India: Implications from pyrite geochemistry, carbon and sulfur isotope studies. **Geological Journal.** DOI: 10.1002/gj.3736. SCI. **Impact Factor: 1.949. Q3**
17. Singha, S., Pasupuleti, S., Darbha K. S., Singha, S. S., Singh, R and **Venkatesh, A.S. (2019).** An analytical hierarchy process-based geospatial modeling for delineation of potential anthropogenic contamination zones of groundwater from Arang block of Raipur district, Chhattisgarh, Central India. **Environmental Earth Sciences.** 78:694. 4 https://doi.org/10.1007/s12665-019-8724-z., SCI. **Impact Factor. 1.871. Q2**

18. Mukherjee R, **Venkatesh, A.S*** and Fareeduddin **(2019).** Geochemical characterization of mineralized albitite from Paleoproterozoic Bhukia IOCG-IOA deposit of Aravalli-Delhi Fold Belt, Rajasthan, western India: Genetic linkage to the gold (±Cu ± U) mineralization. **Geological Journal**. 1–23. https://doi.org/10.1002/gj.3669, SCI, **Impact Factor: 1.949. Q3**

19. Singha, S.S., Pasupuleti, S., Singha, S. ., Singh, R and **Venkatesh, A.S. (2019).** A GIS-based modified DRASTIC approach for geospatial modeling of groundwater vulnerability and pollution risk mapping in Korba district, Central India. **Environmental Earth Sciences** (Springer), 78, 628, (DOI:https://doi.org/10.1007/s12665-019-8640-2). SCI. **Impact Factor. 1.871. Q2**

20. Majumdar, S., Singh, S., Sahoo, P. R. and **Venkatesh, A. S. (2019).** Trace-element systematics of pyrite and its implications for refractory gold mineralisation within the carbonaceous metasedimentary units of Palaeoproterozoic South Purulia shear zone, eastern India**. J Earth System Science**, DOI: https://doi.org/10.1007/s12040-019-1256-9. SCI, **Impact Factor: 1.423. Q4**

21. Singha, S.S., Pasupuleti, S., Singha, S., Singh, R and **Venkatesh, A.S. (2019).** Analytic Network Process based approach for delineation of groundwater potential zones in Korba district, Central India using remote sensing and GIS, **Geocarto International,** DOI: 10.1080/10106049.2019.1648566. SCI, **Impact Factor: 3.789. , Q1**

22. Pant, S., Singh, S., Sahoo, P. R., Kumar, A., Saravanan, B., **Venkatesh, A.S**., Yadav, G.S and Kumar, P. **(2019).** Mineral chemistry and geothermometry of chlorites in relation to physico-chemical conditions of uranium mineralization in the central part of the Singhbhum Shear Zone, eastern India, **Ore Geology Reviews**, 112, 102997. DOI: https://doi.org/10.1016/j.oregeorev.2019.102997. SCI, **Impact Factor: 3.387.,**

Q1

23. Fatima, A., **Venkatesh, A. S.**, Mukherjee, R., Agrawal. A.K., Singh, B., Sarkar. P.S., Kashyap, Y., Shripathi, T. **(2019).** 3D spatial distribution of ore mineral phases using high resolution synchrotron micro-computed tomography (μCT) combined with optical microscopy. **Applied Radiation and Isotopes.** 148 49–59. SCI., **Impact Factor: 1.123. Q2**

24. Naladala, N.R., Singh, R., **Venkatesh, A.S**., Bose, P., Babu, K. P. and Narayan, I.D. **(2019)** Effectiveness of Bio-Activated Carbon Filtration and Ozonation on Control of Halo Acetic Acids Formation during Chlorination of Ganga River Water at Kanpur, India, **Ozone: Science & Engineering**, The Journal of the International Ozone Association, DOI: 10.1080/01919512.2019.1604205. SCI., **Impact Factor: 2.082.** Q3

25. Patra, S., Pattanaik, A., **Venkatesh, A. S.** and Venugopal, R. **(2019)**. Mineralogical and Chemical Characterization of Low Grade Iron Ore Fines from Barsua Area, Eastern India with Implications on Beneficiation and Waste Utilization. **J. Geological Society of India**. Vol.93, April 2019, pp.443-454. SCI., Impact Factor: 0.632. Q4

26. Nayak, B., Mohapatra, R. K., Mangaraj, M., **Venkatesh, A. S.** and Behera, P. N. **(2019)**. Mineralogical Characterisation of Beach Placers at Kantiaghar in Ganjam District, Odisha. **J. Geological Society of India**. Vol.93, February 2019, pp.194-198. SCI., Impact Factor: 0.632. Q4.

2018

27. Singh, R., **Venkatesh A.S***., Syed, T.H., Surinaidu, L., Srinivas, P., Rai, S.P. and Kumar, M **(2018).** Stable isotope systematics and geochemical signatures constraining groundwater hydraulics in the mining environment of the Korba Coalfield, Central India. **Environmental Earth Sciences** (Springer), (doi: 10.1007/s12665-018-7725-7). SCI. **Impact Factor. 1.435. Q2**

28. Kanouo, N. S, Ngueutchoua, G, Kouske, A. P, Yongue, R F and **Venkatesh, A. S. (2018**). Trace Element and U–Pb Core Age for Zircons from Western Meiganga Gold Placer, Cameroon: Their Genesis and Archean-Proterozoic Sources. **Minerals,** 8, 194; doi: 10.3390/min8050194. SCI. **Impact Factor. 2.380. Q2**

29. Kumar, S., **Venkatesh, A.S***., Singh, R., Udayabhanu, G., Saha, D **(2018).** Geochemical signatures and isotopic systematics constraining dynamics of fluoride contamination in groundwater across Jamui district, Indo-Gangetic alluvial plains, India, **Chemosphere**, 205, 493-505. doi: 10.1016/j.chemosphere.2018.04.116. **SCI. Impact Factor. 8.953. Q1**

30. Chakravarti, R., Singh, S., **Venkatesh, A.S**., Patel, K and Sahoo, P. R. **(2018).** A Modified Placer Origin for Refractory Gold Mineralization within the Archean Radioactive Quartz Pebble Conglomerates from the Eastern Part of Singhbhum Craton, India. **Economic Geology.** 113, 3, 579-596. doi: 10.5382/econgeo.2018.4563; SCI. **Impact Factor. 4.013. Q1.**

2017

31. Prasad, J., **Venkatesh, A.S*.,** Sahoo, P.R., Singh, S and Sylvestre Kanouo, N. **(2017**). Geological Controls on High-Grade Iron Ores from Kiriburu-Meghahatuburu Iron Ore Deposit, Singhbhum-Orissa Craton, Eastern India. **Minerals.** *7*(10), 197. DOI.10.3390/min7100197, SCI. **Impact Factor. 2.380**. **Q2**

32. Mukherjee, R., **Venkatesh, A. S*** and Fareeduddin. **(2017).** Chemistry of magnetite-apatite from albitite and carbonate-hosted Bhukia Gold Deposit, Rajasthan, western India – An IOCG-IOA analogue from Paleoproterozoic Aravalli Supergroup: Evidence from petrographic, LA-ICP-MS and EPMA studies. **Ore Geology Reviews** (Elsevier), 90, 509-529, DOI: 10.1016/j.oregeorev.2017.09.005, SCI. **Impact Factor. 3.387. Q1**

33. Sengar, V K., Champati Ray, P. K., Chattoraj, S L ., **Venkatesh, A S.,** Sajeev, R., Konwar, P and Thapa, S (2017) Demarcation of mineral rich zones in areas adjoining to a copper prospect in Rajasthan, India using ASTER, DEM (ALOS) and space-borne gravity data. Proc. SPIE 10428, Earth Resources and Environmental Remote Sensing/GIS Applications VIII, ; doi: 10.1117/12.2277526;http://dx.doi.org/10.1117/12.2277526/

34. Singh, R., **Venkatesh A.S***., Syed, T.H., Reddy, A.G.S., Kumar, M and Kurakalava, R. M **(2017)** Assessment of Potentially Toxic Trace Elements Contamination in Groundwater Resources of the Coal Mining Area of the Korba Coalfield, Central India. **Environmental Earth Sciences (**Springer), 76, 556, (DOI: 10.1007/s12665-017-6899-8). SCI. **Impact Factor. 1.871. Q2**

35. Singh, R., Syed, T.H., Kumar, S., Kumar, M and **Venkatesh A.S. (2017).** Hydrogeochemical Assessment of Surface and Groundwater Resources of Korba Coalfield, Central India: Environmental Implications. **Arabian Journal of Geosciences** (Springer), 10, 318, 1-16, DOI: 10.1007/s12517-017-3098-6. SCI. **Impact Factor. 1.327**. Q4

36. Kumar, A., **Venkatesh, A.S,** Kumar, P., Rai, A. K and Parihar, P S. **(2017).** Geochemistry of Archean Radioactive Quartz Pebble Conglomerates and Quartzites from western margin of Singhbhum-Orissa Craton, eastern India: Implications on Paleo-weathering, Provenance and Tectonic Setting. **Ore Geology Reviews** (Elsevier), 89, 390–406, DOI: http://dx.doi.org/10.1016/j.oregeorev.2017.06.014, SCI. **Impact Factor. 3.387**. **Q1**

37. Chakravarti, R., Singh, S and **Venkatesh, A. S.** (2017). Gold Mineralisation within Quartz Pebble Conglomerates of Gorumahisani-Badampahar Schist belt, Singhbhum Craton, Eastern India. **Journal of Geosciences Research**, Special Volume No.1, 2017, pp. 27-34.

2016

38. Mukherjee, R., **Venkatesh, A. S*** and Fareeduddin. **(2016).** Albitite hosted gold-sulfide mineralization: Example from Paleoproterozoic Aravalli supracrustal sequence, Bhukia area, Western India**.** **Episodes,** 39, 4, 590-598. DOI:10.18814/epiiugs/2016/v39i4/103891. (International Union Geo Sciences Journal-IUGS) SCI. **Impact Factor. 3.23**.

39. Prakash, A., Murthy, V. M. S. R., Singh, K. B. Venkatesh, A. S**. (2016).** Effect of Rock Fracture Toughness and mineralogy on cutting Performance of Surface Miner- some investigations. **J. Mines, Metals and Fuels**, 386-394. Scopus, S.J.R. I.F. 0.122.

40. Sengar, V. K., **Venkatesh, A. S.,** Champati Ray, P. K., Chattoraj, S. L., Sharma R. U., (2016). Mineralogical Mapping in The Part of a Gold Prospect Using EO-1 Hyperion data. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences (IPRSS), Vol. XLI-B7, pp. 991-993. (doi: 10.5194/isprs-archives-XLI-B7- 991-2016).

41. Yadav, G. S., U. K. Pandey, U. K., Aravind, S. L., P. K. Panchal, P.K., **Venkatesh, A. S**., Sahoo, P.R., Chaturvedi, A. K., Rai. A. K and Parihar, P. S **(2016).** U–Pb, Pb–Pb and Sm–Nd ages of davidite within albitite zone from Bichun, Jaipur district, Rajasthan, India: possible link between uranium mineralization and Grenvillian orogeny. **Current Science**, 111, 5, 907-912 , doi: 10.18520/cs/v111/i5/907-913. SCI. Impact Factor. 1.0.

42. Kanouo, N.S., , Ekomane, E., Yongue, R.F., Njonfang, E., , Khin Zaw, Changqian Ma, Ghogomu,T.R., Lentz, D.R., **Venkatesh A.S**. **(2016).** Trace elements in corundum, chrysoberyl, and zircon: application to mineral exploration and provenance study of the western Mamfe gem clastic deposits (SW Cameroon, Central Africa). **Journal of African Earth Sciences** (Elsevier), 113, 35-40. DOI: doi:10.1016/j.jafrearsci.2015.09.023. S.C.I. I.F. 1.603. Q3.

2015

43. Kanouo, N.S., Yongue, R.F., Ekomane, E., Njonfang, E., Ma, C., Lentz, D., She, Z., Zaw, K and **Venkatesh, A. S. (2015**). U–Pb Ages for Zircon Grains from Nsanaragati Alluvial Gem Placers: Its Correlation to the Source Rocks. **Resource Geology** (Japan), DOI: 10.1111/rge.12063. Volume 65, Issue 2, pages 103–121, April 2015. S.C.I ., I.F. 1.418. **Q2**

44. Jha, V., Singh, S and **Venkatesh, A. S**. **(2015)** Invisible Gold Occurrence within the Pyrite of Babaikundi Area, North Singhbhum Fold Thrust Belt, Eastern Indian Shield. Evidences from Petrographic, SEM and EPMA studies. **Ore Geology Review**s (Elsevier) 65, 426–432. DOI: 10.1016/j.oregeorev.2014.10.003. S.C.I., I.F. 3.993. **Q1**

45. Sahoo, P R and **Venkatesh A. S**.* **(2015).** Constraints on mineralogical characterization of gold ore: Implication for genesis, controls and evolution of gold from Kundarkocha gold deposit, eastern India. **Journal of Asian Earth Sciences** (Elsevier) 97 (2015) 136–149 (Elsevier) DOI: 10.1016/j.jseaes.2014.09.040. S.C.I., I.F. 3.059. **Q2.**

2014 and in descending years

46. Sahoo, P R and **Venkatesh A. S.* (2014)**. "Indicator" carbonaceous Phyllite/graphitic schist in the Archean Kundarkocha gold deposit, Singhbhum orogenic belt, eastern India: Implications for gold mineralization vis-a-vis organic matter. **J. Earth System Science** (Springer), 123, 7, 1693–1703. DOI: 10.1007/s12040-014-0488-y. S.C.I., I.F. 1.27.

47. Karun Kumar Chandan, Vandana Jha, Sairaj, K, Sahendra Singh and **Venkatesh, A.** S (2013). Greenfield exploration prospects of orogenic gold mineralization in and around Lawa area, North Singhbhum Mobile Belt, Eastern Indian Craton. International Journal of Applied and Natural Sciences (IJANS), ISSN 2319-4014, Vol. 2, Issue 4, Sep 2013, 81-90.

48. Bhargava, P, **Venkatesh, A S** and Mandre N R (2012). Beneficiation of Low- Grade Iron Ore by Flotation. SGAT Bulletin, 13, 2, 13-17.

49. Gupta, M, **Venkatesh, A S** and Mandre N R (2012). Selective Flocculation of Low-Grade Iron Ore Slimes. SGAT Bulletin, 13, 2, 123-128.

50. Kumar, A, **Venkatesh, A S,** Ramesh Babu, P V and Nanda S. (2012). A note on the presence of Au-REE±Ag-Pt in Archean Iron Ore Group sediments, western margin of Bonai granite pluton, eastern India. Exploration and Research for Atomic Minerals (EARFAM), AMD, DAE, Hyderabad. vol. 21, October, 2011, 9-19 (published in 2012).

51. Kumar, A, **Venkatesh, A S,** Ramesh Babu, P V and Nayak, S**. (2012**). Genetic Implications of rare uraninite and pyrite in quartz-pebble conglomerate from Sundargarh district of Orissa, Eastern India. **J Geological Society of India,** 79, 279-286. (Springer). S.C.I. I.F. 0.479.
52. Upadhyay, R. K., Asokan, S and **Venkatesh, A. S***., **(2011).** Mode of occurrence of phosphorous in iron ores of eastern limb, Bonai synclinorium, eastern India. **J Geological Society of India,** June 2011, 77, 6, 549-556 (Springer) S.C.I., I.F. 0.479.

53. Singh, S., **Venkatesh, A. S.** and Sarkar, B. C. (2011). Gold deposits: Global Perspective and National Scenario. J. Geoscientists, 1, 1, 55-63.

54. Upadhyay, R.K., **Venkatesh, A. S.*** and Roy S**. (2010).** Iron ore deposits of eastern India: Geological aspects and their mineralogical characteristics; **Resource Geology,** (Japan) , v. 60,2, 203-211. S.C.I., I.F.0.479. **Q2**

55. Sahoo, P.R, Prasad, J., Prakasam, M., Singh, S and **Venkatesh A.S.*** (2010). Orogenic gold mineralization in and around Kundarkocha, east Singhbhum, Jharkhand" Journal of the Indian Academy of Geoscience (ISSN 0379-5160), 52, 1, 11-18.

56. Roy, S. and **Venkatesh. A. S**.,* **(2009a).** Banded Iron Formation to Blue Dust: Mineralogical and Geochemical constraints from the Precambrian Jilling-Langalata Deposits, Eastern Indian Craton, **Applied Earth Science (Trans. Inst. Min. Metall. B),** v 118 No 3/4, 178-188.

57. Singh, S and **Venkatesh, A S** , (2009). Geochemistry of host rocks and its implication on the genesis of orogenic gold mineralization within Sonakhan schist belt, Central India, Goldschmidt Conference Abstracts 2009, Geochim Cosmochim. Acta, A1229.

58. Roy, S. and **Venkatesh. A. S.,* (2009b).** Mineralogy and geochemistry of Banded Iron Formation and iron ores from eastern India with implications on their genesis. **J. Earth System Science** (Springer). 118, No. 6, December 2009, pp. 1–23.

59. Upadhyay, R.K., Roy S., **Venkatesh A. S***., Rao M.V.S. and Banerjee, P. K. **(2009**). Relevance of geological aspects and ore mineralogy for selecting beneficiation methods

for processing of eastern Indian iron ores. **Journal of Mineral Processing and Extractive Metallurgy (Trans. Inst. Min. Metall. C),** vol. 118, no. 1, pp. 49-59.

60. Roy, S., Das A. and **Venkatesh. A. S**.,* **(2008)** A comparative mineralogical and geochemical characterisation of iron ores from two Indian Precambrian deposits and Krivoy rog deposit, Ukraine: implications for the upgrading of lean grade ore. **Applied Earth Science: IMM Transactions section B,** 117, 3, 125-147(23).

61. Roy Subrata, Das Avimanyu and **Venkatesh A. S**.* **(2007).** Characterization of Iron Ore from Jilling area of eastern India with a view to beneficiation. Iron Ore 2007, Australia, Trans Aus IMM, pp.179-186.

62. Upadhyay, R.K., and **Venkatesh, A.S**.,***(2006).** Current strategies and future challenges on exploration, beneficiation and value addition of iron ore resources with special emphasis on iron ores from eastern India. **Applied Earth Science (Trans. Inst. Min. Metall. B),** Vol. 115, No 4, p 187-195.

63. Singh, S. and **Venkatesh, A.S**.* (2006). Geochemistry of Mafic Volcanic Host rocks associated with Gold mineralization within Sonakhan Group, Central India. Indian J Geochemistry 21 (2), 381-400.

64. Majumder, T, **Venkatesh, A.S,*** Kumar V and Upadhyay, R.K. (2005). Mineralogical Characterisation of Iron Ores From Eastern India With Special Emphasis on Beneficiation of Iron Ore Fines. Iron ore 2005 Intl. conference, Fremantle, WA, Australia, 19-21, Sept, 2005. **Trans Aus IMM** special publication series no 8/2005, 227-231.

65. Rai, K.L., Pandey, H K., **Venkatesh, A.S.,** Dash, S K., Agarwal, S and Diwan, P (2004). Granitoids, their altered variants and associated rocks from Malanjkhand, Central India: Geological setting, geochemistry, evolution and petrogenesis. J Econ. Geol. and Georesource Mangagement, 1, 2, 235-277.

66. Saha, I and **Venkatesh, A. S.* (2002)** Invisible Gold within sulfides from Archean Hutti- Muski schist belt, Southern India**. J. Asian Earth Sciences.,** v.20, pp 449-457 (Featured as Elsevier's most downloaded papers for the journal with very high citations). **Q2**

67. **Venkatesh, A S** (2002) Invisible Gold to Native Gold: An interplay within the deep crustal scale shear regimes: First report from Sakoli Group, Central India. Deep Continental Studies (DCS) (Department of Science and Technology, Govt of India publication) News letter, vol.12.No.1, pp. 22-24.

68. Mishra, T., Jose, B., Deepa, K K., Sreehari, S M S. and **Venkatesh, A S.* (2001)** Auriferous mineralisation in the Sakoli Group, Central India with particular reference to the occurrence of sulphide bound gold. Applied Earth Sci., **Trans. Instn. Min. Metall. Sec: B:** (U.K), V.110, B103-109. http://dx.doi.org/10.1179/aes.2001.110.2.103.

69. Rai, K L and **Venkatesh, A S (1993).** Geological setting and nature of copper-molybdenum mineralization in the intra-continental acid magmatic regime of Malanjkhand, Central India. **Resource Geology** (Japan), 5, 285-297. **Q2**

70. Poornachandra Rao, G V S., **Venkatesh, A S*** and Bhalla M S (1991). Palaeomagnetic results of pyroxenites from Sukinda valley, Orissa, SE India and their tectonic implications. Indian J. Geol., 63, 2, 106-118.

71. **Venkatesh, A S.,** Poornachandra Rao, G V S., Prasada Rao, N T V and Bhalla M S. **(1987).** Palaeomagnetic and geochemical studies on dolerite dykes from Tamil Nadu, India. **Precambrian Research**, 34, 3-4, 291-310. **Impact factor,** 4.427 , **Q1**

72. Poornachandra Rao, G V S., Radhakrishna, T and **Venkatesh, A S**.* (1986). Palaeomagneism of dolerite dykes from north Kerala region. Geophys. Res. Bull., 24, 3, 121-128.

73. Radhakrishna, T., Poornachandra Rao, G V S., Mitchell, J G and **Venkatesh, A S**.* (1986). Proterozoic dyke activity in Kerala along the western continental margin of India. **J Geol. Society of India.**, 27, 245-253.

74. **Venkatesh, A S**.,* Poornachandra Rao,G V S.,Prasada Rao, N T V and Bhalla M S. (1984). Palaeomagentism and age of dolerite dykes near Kunnam, South Arcot District, Tamil Nadu. Geoviews, XII, 101-105.

Conference Papers

International/National conference proceedings-Full papers /abstracts

1. Sahoo, P R., Khan,I., Golani, P R., Venkatesh A S and Gupta, S. (2016). Geological aspects and fluid evolution associated with copper (gold+silver) mineralization in the Mundiwawas- Khera area, Alwar district, Rajasthan, western India. Asian Current Research On Fluid Inclusions (ACROFI-VI), Indian Institute of Technology, Bombay, 25th to 27th November, 2016, Extended Abstracts Volume.

2. Mukherjee, R., Fareeduddin and Venkatesh, A. S. (2016) Compositional Variation of Tourmaline from the Paleoproterozoic Bhukia Gold Prospect of Aravalli Supergroup, Western India: Implications for the Provenance and Gold Metallogeny. Abstract V23B-2973 presented at 2016 Fall Meeting, **AGU**, San Francisco, Calif., 11-15 Dec.
3. Khan, I., Sahoo, P R., Golani, P R and **Venkatesh A S** (2016). Geological controls, environment of formation and style of copper and gold mineralization in the Mundiyawas-Khera area of Alwar district, Rajasthan, Western India. Paper **presented by Venkatesh A S** in the Mineral Deposits and Ore Forming Processes, session of 35th IGC, held from 27 August - 4 September, 2016, **Cape Town, South Africa.**

4 **Sahoo, P R., Singh, S and** Venkatesh A S **(2016). Genesis of gold mineralization in Kundarkocha gold deposit, Singhbhum Craton, eastern India: evidences from host rock geochemistry, Paper** presented by Venkatesh A S **in the Gold Mineralizing Systems session (jointly sponsored by SEG and SGA) of 35th IGC, held from 27 August - 4 September, 2016,** Cape Town, South Africa.

5 Chakravarti, R., Singh S., Mahanta S, Sahoo P R and **Venkatesh A S.** (2016). Source characterization of Quartz-Pebble Conglomerates within Gorumahisani-Badampahar Belt, Singhbhum-Orissa Iron Ore Craton, India: Implications for radioactive and gold mineralization. Paper presented by Chakravarti, R in the 13th Annual Meeting of Asia Oceania Geosciences Society (AOGS), held from 31 Jul to 5 Aug, **Beijing, China** SE21-A004.

6 Kumar, A., Sahoo P R and **Venkatesh, A S** (2016). Significance of sulfosalts within the Archean Kundarkocha Gold Deposit, eastern India. Paper presented by Kumar A in the 13th Annual Meeting of Asia Oceania Geosciences Society (AOGS), held from 31 Jul to 5 Aug, **Beijing, China** SE21-A026.

7 Sharma, J P., Mahanta, H., Sahoo P R, **Venkatesh A S** and Patil D J. (2016). Significance of sulfosalts within the Archean Kundarkocha Gold Deposit, eastern India. Paper presented by Sharma J P and Sahoo P R in the 13th Annual Meeting of Asia Oceania Geosciences Society (AOGS), held from 31 Jul to 5 Aug, **Beijing, China** SE21-A031.

8 Sengar, V K., **Venkatesh, A S**., Ray, A K C., Chattoraj, S L and Sharma, R U (2016). Mineralogical mapping in the part of a gold prospect using EO-1 Hyperion data, extended abstract in Commission VI, WG VI/4, **Prague ISPRS** 2016 conference, held on July 18th, 2016, presented by Chattoraj, S L. and V Sengar (Part Time research student)

9 Prasad, A K., Sahoo, S., **Venkatesh A. S**., Ana Vukovic, A. Univ. of Belgrade (Serbia); Nickovic, S, (2016). Republic Hydrometeorological Service (Serbia); Sprigg, W A The Univ. of Arizona (USA) Modeling of dust source over southwest USA using multisensor data. (2016) in **SPIE, ASIA-PACIFIC REMOTE SENSING** held in New Delhi 4–7 April 2016, presented by Prasad A K Abs No. 9877-21.

10 Mukherjee, R., Fareeduddin and Venkatesh, A. S. (2015). Gold mineralization in Paleoproterozoic Bhukia Gold Prospect, Rajasthan, Western India: Controls and genetic aspects. 12th Annual Meeting, Asia Oceania Geosciences Society, Singapore. SE13-A013, p. 291.

11 Prasad, Jitendra., **Venkatesh, A S** and Chaturvedi, Lokesh (2014). Geological Aspects of Iron Ores from Kiriburu-Meghahatuburu: Implications for Exploration, Value Addition and Mining Operation. In 6TH National Seminar on Surface Mining, held at Indian School of Mines, Dhanbad, 10-11, Jan, 2014, Ed., Sen P and Choudhary, B S. M/s Power Print publ. ISBN: 978-93-5156-186-6. pp. 467-474.

12 Lipisudha Badapanda., Nayak B and **Venkatesh, A S** (2014). Mineralogical characterization of low grade iron ores from Daitari open cast mines, Odisha. In 6TH National Seminar on Surface Mining, held at Indian School of Mines, Dhanbad, 10-11, Jan, 2014, Ed., Sen P and Choudhary, B S. M/s Power Print publ. ISBN: 978-93-5156-186-6. pp. 45-52.

13 Chandan Karun Kumar, Jha Vandana, Khatun Mousoma, Sahendra Singh and **Venkatesh A S** and (2013). Geochemistry of Paleo to Mesoproterozoic metasedimentary units, Lawa-Mayasera Area, Chandil Formation, Eastern Indian Craton: Implications for provenance and source area weathering. **125th Annual Meeting, Geological Society of America, 27-30 October, 2013, Denver, Colorado, USA,** Abs., 92-1; Session No. 92, Clastic Sediment: Precambrian to Recent, Experimental to Applied studies. (Vandana Jha, Research student presented the paper at Colorado).

14 Singh, S., Satapathy, J S and **Venkatesh, A S** (2011). Implications of global scale crustal processes on exploration prospects of orogenic gold mineralisation. In 17th Convention of Indian Geological Congress and International Conference on New Paradigms of Exploration and Sustainable Mineral Development: Vision 2050, held in Nov. 10-12, 2011, Ed. Varma O P, Sarkar, B C, Varma A K, Mukherjee M K and

Singh S. M/s Power Print publ. ISBN: 978-81-8465-954-2. Pp. 771-778.

15 Sanjoy Kumar Sarkar, Kundargi, G P, Sarita Kabi and **Venkatesh, A S.** (2011). Geological aspects of manganese mineralisation in Balaghat Mine: Implications on the exploration and mine development. In Sem. Vol., 2nd National Seminar on Underground Metal Mining: Status and Prospects (UMMSP), Ed., V M S R Murthy, U K Singh and B S Choudhary, Oct, 13-15, 2011, Power print publ., Dhanbad, ISBN No. 978-81-8465-863-7, pp. 95-102.

16 Sahendra Singh, **Venkatesh A S** and Chandan Karun Kumar (2011). Crustal evolution of Earth and it's control on global scale orogenic gold metallogeny. Pp. 21-9. Paper presented in International conference on Fragile Earth conducted by **The Geological Society of America held at Munich, Germany**, 4-7th September, 2011, Paper 18826. (Dr S Singh presented paper at Munich).

17 **Venkatesh**, **A S,** Mohapatra, P and Monalisa Das (2010). Environmental Geochemistry of Soil and Water Associated with Coal Overburden in Eastern Part of Jharia Coalfield. In Conf. Vol., National Conference *cum* Workshop on Geological and Technological Facets of CBM, Shale Gas, Energy Resources and CO_2 Sequestration, Ed. Varma A K., Dubey, R K., Sarkar, B C and Saxena, V K. Nov, 19-20, 2010, ISM, Dhanbad, Allied Publishers Pvt. Ltd., New Delhi, ISBN No.978-81-8424-643-8, pp., 149-153.

18 Sahendra Singh, **Venkatesh, A.S.** and Tirkey V. (2010). Environmental hazards due to Coal Mine Fire: A Geological perspective of Coal mine fire in Kuju area, Ramgarh district, Jharkhand. In Souvenir., National Conference *cum* Workshop on Geological and Technological Facets of CBM, Shale Gas, Energy Resources and CO_2 Sequestration, Nov, 19-20, 2010, ISM, Dhanbad, pp., M/S Power Print Publishers, Dhanbad. Abs. 25.

19 **Venkatesh, A S** and Anish T K (2008) Environmental geochemistry of Arsenic contamination in parts of western Bihar., Sem vol., National Seminar on Environmental Issues on geotechniques and mineral industry. Ed. Kumar and Dey, Aug, 4-8, Sindri, pp. 448-456.

20 Singh, S., **Venkatesh, A S** and Tirkey, V. 2008. A geodynamic model for the tectonic evolution of Sonakhan greenstone belt, Bastar Craton, Central India. Abs. in IV **Int conf. on the geology of Tethys, Cairo Univ., Egypt**, Nov. 2008, p. 5 (Dr S Singh presented paper Cairo).

21 Varma, A K., Mohanta, A., Singh A K., Mendhe V A., Asthana D and **Venkatesh A S.** (2007). Geological and Petrographic investigations for Carbon Dioxide Sequestration in Rajmahal Traps of Birbhum, West Bengal, In. Eds. Gurdeep Singh., David Laurence and Kuntala Lahiri-Dutt., Ist International Conference vol " Managing the Social and Environmental Consequences of Coal Mining in India" held at Delhi in 2007, pp. 743-750.

22 Dubey, R. K and Venkatesh, A.S. (2007). Shock signature on Precambrian dykes of Tamil Nadu. In Natl. Sem. on Mapping and Modeling of Deep Crustal features using Geoelectomagnetics and other Geophysical Methods, Abs Volume, p. 30.

23 **Venkatesh A.S.** and Jose B (2007). Metallogenetic Evolution of the Gold Mineralisation in the Sakoli Group, Central India. In. Group Discussion on "Metallogeny, Crustal Evolution and Advanced Techniques in Ore Genesis, (held at IIT, Kharagpur from 9-10 March, 2007, Abs Volume, pp.9-10 as rapporteur.

24 Sarangi, A.K., **Venkatesh, A.S**., Sarkar, B.C., Dash, D. R. and Rongmei, G. (2006). Nature of Uranium mineralisation and development of deposit at Turamdih, East Singhbhum District, Jharkhand. In. Eds. Murthy et al., Nat Sem. vol. Underground Metal Mines SP-2006 held from 13-14, Feb at ISM, pp. 3-9.

25 Varma, A. K., Bania, K., Saxena V. K and **Venkatesh, A.S**. (2006). Geological and Petrolgraphic potentialities of Coal and Carbonaceous shale from Makum Coalfield, Assam for Petroleum generation. In Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), Eds. Varma, A K, **Venkatesh, A.S**., Dhar, Y.R and Saxena, V.K. publ. Allied Publisher, New Delhi, pp. 115-118.

26 Singh, S and **Venkatesh, A.S**. (2006). Metallogenetic Modelling of Gold Mineralisation in Sonakhan greenstone belt, Central India, In Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), Eds. Varma, A K, **Venkatesh, A.S**., Dhar, Y.R and Saxena, V.K. publ. Allied Publisher, New Delhi, pp. 145-150.

27 Roy, S., Das, A and **Venkatesh, A.S**. (2006). Characterisation of Iron ore slimes from different deposits: A Comparative study.. In Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), Eds. Varma, A K, **Venkatesh, A.S**., Dhar, Y.R and Saxena, V.K. publ. Allied Publisher, New Delhi, pp. 171-180.

28 Ragini, R., Singh, R.P., Varma, A.K and **Venkatesh, A.S.** (2006). Application of Fluid Inclusion Stratigraphy in Reservoir rock characterization of Bombay High and Lakwa oil fields: A preliminary appraisal. In Nat. Conf. on " Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), p. 30.

29 Nayak, B and **Venkatesh, A.S**. (2006). Heavy mineral distribution in the beach sands of Eastern coastal Orissa. In Nat. Conf. on " Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), p. 38.

30 Mahato, N., Dhar, Y R and **Venkatesh, A.S**. (2006). Some aspects of arsenic contamination of ground water in parts of Gangetic plains of Bihar. In Nat. Conf. on " Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), p. 40.

31 Singh, S., Sahoo, P., Asthana, D. and **Venkatesh, A .S.** (2005). Geology and Geochemistry of orogenic gold mineralisation in the Sonakhan Greenstone belt, Central India. Nat Sem. On Proterozoic System of India, held at ISM from 11-12, November, 2005.,p. 47.

32 Jose, B. and **Venkatesh, A.S.** (2005). Metallogenetic studies of Gold-Copper mineralisation in Pular-Parsori-Tuthanbori belt, Sakoli Group, Central India. Nat Sem. On Proterozoic System of India, held at ISM from 11-12, November, 2005.,p. 20.

33 Maiti S. K, Nandhini, S and **Venkatesh, A.S.** (2005). Evaluation of Bioremediation and related Environmental Geochemical aspects of Copper Mine Waste from Mosaboni, Eastern India. in International Conference volume on Mineral Processing Technology (MPT-2005), Tata McGraw Hill publ.,eds. Venugopal, R V., Sharma, T, Saxena, V K and Mandre, N R., 434-441.

34 **Venkatesh, A S,** Jose, B and Srinivas T (2004). Fluid - Rock Interactions within the Palaeoproterozic Au Mineralization of the Sakoli Group, India. in the proc. Eleventh International Symposium on **Water-Rock Interaction**, Saratoga Springs, **New York**, held on June 27-July 2, 2004, Eds. Wanty, R.B. and Seal II, R.R., publ. by **Taylor and Francis** Group, London Proc. v.1, pp. 311-316. Prof Venkatesh presented paper at New York WRI. Received financial award for attending conf.

35 Singh, S and **Venkatesh, A S** (2004). Geodynamic Significance of Rajahmundry Traps; Andhra Pradesh, India. *In* 32nd **International Geological Congress, held in Florence. G05.08 under Tectonics of Shield Areas** (CD form).

36 Jose, B, **Venkatesh, A S** and Srinivas, T (2004). Metallogenetic controls of Gold-Copper mineralisation within Sakoli Group, Central India. ***In* 32nd International Geological Congress, held in Florence. G14.09 under Metallogeny of large and super large mineral deposits** (CD form).

37 Kumar, V, **Venkatesh, A S**., Sharma, T. and Jahdav, G N (2002). Ore geological characterization of low-grade iron ore from Noamundi iron ore mines, Eastern India: An implication for beneficiation. Abs. Sem. Vol. International seminar on Mineral processing Technology at IISC, Bangalore held on Jan 3-5, 2003, pp.125.

38 Suresh, N, Tripathi, D and **Venkatesh, A.S**. (2001) Characterisation and beneficiation of Boula-Nusali chromites. International conf. "On challenges on coal and mineral beneficiation" held at ISM. Dec.7-8- 2001, pp.23-28. Tata McGraw-Hill Publ. Company Ltd.

39 Venkatesh, A. S. (2001). Geochemical signatures and auriferous implications in Sonakahan greenstone belt, Chattisgargh. **Geol . Surv. India, Spl. publ** No.55. pp., 219-228 (Sem. Vol: Dr M S Krishnan Centenary Seminar on Precambrian of India, held at Kolkata).

40 Saha, I and **Venkatesh, A S**. (2000) Geological and structural aspects of gold mineralization at Archean Hutti-Maski Schist Belt, India {abs.}: **31st International Geological Congress, Rio de Janeiro, Brazil** 2000(in CD form).

41 **Venkatesh, A S** and Saha, I. (2000) Wall-rock alterations associated with gold mineralization in the Archean Hutti-Maski Schist Belt, South India {abs.}:31st International Geological Congress, Rio de Janeiro, Brazil 2000 (in CD form).

42 Banik, R., Suresh, N., **Venkatesh, A S** and Mandre, N R (1994). Selective flocculation of low grade sulphides of Rangpo-Sikkim using cellulose xanthite. Abs. International symp. on Mineral Beneficiation-Recent trends and beyond 2000 AD, Oct 3-4 held at IBM, Nagpur.

43 Rai, K L and Venkatesh, A S (1990). Malanjkhand copper deposit: A petrological and geochemical appraisal. **GSI Spl. Publ**. No. 28, 563-584 (Precambrian of Central India held at Nagpur).

44 Rai, K L and **Venkatesh, A S** (1990). Geological setting, characteristics and genetic aspects of sulphide mineralization at Malanjkhand, Balaghat District, M.P. Abs. 7th IGC and Nat. Sem. 31-12-1989 to 2-1-1990 held at Bangalore.

45 Poornachandra Rao, G V S., **Venkatesh, A S** and Bhalla M S (1989). Palaeomagnetism

and tectonics of the Sukinda valley, Orissa, SE India. Abs. In International Symp. on " Structure and Dynamics of the Indian Lithosphere, held at NGRI, Hyderabad on Feb. 1-2, 1989.

46 Rai, K L., Venkatesh**, A S** and Jain, V K (1988). Ore microscopy and mineral paragenetic sequence of copper ores in Malanjkhand deposit, Balaghat District, M.P. Abs. In the Nat. Sem. On the Development of ore petrology and its impact on resource evaluation and mineral economics held at Andhra University, Visakhapatnam.

47 Rai, K L and **Venkatesh, A S** (1987). Regional geological setting of Malanjkhand type Cu-Mo deposit, Madhya Pradesh, India. Abs. Diamond Jubilee Nat. Symp. on " Development of India's Mineral and Fuel Resources: Geological and Environmental aspects" held at ISM, Dhanbad on 3 & 4, July, 1987.

Books published

Singh Sahendra and **Venkatesh A. S. (2012).** Gold Mineralization within Sonakhan Schist Belt, Central India: Exploration Prospects and Metaollotectonic Implications, LAP Lambert Academic Publishing, Germany, p.240. [Paperback] ISBN-10: 3845411821 | ISBN-13: 978-3845411828, Price: $106.00.

Conference volume/Book edited by Varma A K, **Venkatesh A S**, Dhar Y R and Saxena V K **(2006).** "Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources" published by M/S Allied Publishers, New Delhi, p. 344.

Conferences/Seminars conducted: as Organizing Secretary

Conducted a National Seminar on "Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006) conducted in the capacity of Organizing Secretary, from 2-4, November, 2006 at ISM, Dhanbad and conference volume published as mentioned below.

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