



Padmashree Dr. Rabi Narayan Bastia
पद्म श्री डॉ. रबि नारायण बस्तिआ





“ Padmashree was Awarded to Dr. Rabi Narayan Bastia, the famous Geoscientist by Bharat Ratna Dr. APJ Abdul Kalam on 23rd March 2007 ”



Padma Shri



Dr. Rabi Narayan Bastia

Dr. Rabi Narayan Bastia is a renowned geoscientist who is widely recognized for his outstanding contributions in the field of hydrocarbon exploration both at national and international levels.

2. Born on 2nd October 1958, Dr. Bastia obtained his Masters and Doctoral degree in Geology from IIT, Kharagpur. He was selected for the specialized MS course in Petroleum Exploration from the Norwegian Technical University. He has been serving the Indian Petroleum Industry for more than 25 years in different capacities with distinction. He is currently holding the position of Sr. Vice President in the Petroleum Business (E&P) Division of Reliance Industries Ltd. Prior to this, he had a long and successful tenure with the Oil and Natural Gas Corporation.

3. Dr. Bastia's contribution in exploration of hydrocarbons in the deep water regions is commendable. He has provided a high level leadership in directing and implementing several major exploration programmes in the deepwater regions of east coast of India which have resulted in major hydrocarbon discoveries. The gas discovery in the Krishna-Godavari basin is the world's largest find of the year 2002. The discovery in the Mahanadi offshore is another tribute to his foresight, particularly due to the fact that this discovery was preceded by a long spell of unsuccessful exploration by previous operators. Dr. Bastia's approach in development of new concepts coupled with several technological innovations has added a new dimension to the Indian Hydrocarbons scenario and earned India a place of pride in the deep water map of the world.

4. Dr. Bastia has effectively guided oil & gas exploration programmes at Reliance Industries Ltd. to a great success. His approach for cost-effective exploration is based on the theme of people-process technology. His strong conviction in robust workflow, benchmarking with the industry's best, stringent peer review and validation by super-specialists have proved to be an integral part of recent success stories of Indian oil & gas exploration.

5. Dr. Bastia was the first Indian Chairman of International Quality & Productivity Centre (IQPC) at the Deepwater Drilling Asia 2005 Convention held in Kuala Lumpur, Malaysia. He was invited as a Keynote speaker for two consecutive years during Petromin Deepwater Conference at Malaysia and at the SEAPEX conference at Singapore. He is a member of several geo-scientific organizations like Association of American Petroleum Geologists and Society of Exploration Geophysicists. Four research scholars have been awarded doctoral degree under his supervision. Besides being a visiting faculty to many universities and authoring more than fifty publications in several scientific journals, he has written a book titled 'Geologic Settings and Petroleum Systems of India's East Coast Offshore Basins; Concepts & Applications'.

6. Dr. Bastia has received numerous awards and distinctions in India and abroad. In 2006, he was honored with Gold Medal at the Association of Exploration Geophysicists Conference. The Government of India conferred on him 'The National Mineral Award' in 2003 in recognition of his scientific dedication and pursuit. During his tenure with ONGC, he bagged scientific awards for three consecutive years from 1993 to 1995, including the prestigious 'Young Executive Award'.



Dr. Rabi Narayan Bastia

Padmashree

CEO, Oilmax Energy Pvt. Ltd.

D.Sc., ISMU, Dhanbad

Ph.D., IIT Kharagpur

Adjunct Prof. in IIT Bhubaneswar

Adjunct Prof. in IIT Madras

M.S., Trondheim, Norway

Distinguished Fellow, Continental Who's Who, USA

IBC, Top 100 Educators ,Cambridge, England

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Vision

Oil and Gas is a knowledge driven industry where the technology, tool & people collectively power the success. In line with the above pursued the business with self-conviction with following principles:

- **Never be afraid of ignorance**
- **Tap the knowledge, technology and people to support and supplement**
- **Be flexible, Change to adopt**
- **Carry and trust the team: They will deliver**

- ✓ *Exposure to entire spectrum of E&P business chain starting from **Exploration, Business development, strategic planning, project execution, asset management** and involved in mega projects in the **magnitude of \$10 billion**.*
- ✓ Holds the **world record of maximum number of mineral discoveries**.
- ✓ Guided the game changing **world's largest Gas discovery in Krishna-Godavari** basin, which has put India strongly in the energy map of the world. Besides made about **54 oil and gas discoveries** (including Mahanadi and Cauvery) during the career span in several sedimentary basins of India which has a strong bearing to bridge the energy gap in future.
- ✓ Worked for the unconventional resources such as CBM, Shale gas/oil projects both in US and India.
- ✓ **Technology:** Implemented about **36 new technologies** for the first time in India (few of them are first time in world) which paid rich dividend.
- ✓ **Team Building:** Created a center of excellence by combining professionals and talents from various pools of E&P activities, from all over the world.

Professional Tenure

- ✓ Spreading over 40 years, have the unique distinction of a career spanning from domestic (both Govt. and Private) to International at very critical and responsible positions.
- ✓ After heading the exploration group of Reliance for more than 16 years has currently taken up some very distinguished and challenging international and domestic assignments.
- ✓ Current Assignments:
 - Domestic:
 - CEO (Oil and Gas) Oilmax Energy Private Ltd., Mumbai, India.
 - Director, Asian Energy Services Pvt Ltd., Mumbai, India. Currently dealing with major leading edge technologies for Oil & Gas, Coal, Mineral and Ground Water.
 - Board position, TIW Pvt. Equity.

- International
 - Director, Masirah Oil Limited, Oman.
 - Board positions in Lime Petroleum, Norway and REX Technology, Singapore.

Career Spread

Sl. No	Period	Organization	Place
1	1980-1996	ONGC	Assam, Gujarat, Delhi, Dehradun
2	1984-1986	Norwegian Institute of Technology (to pursue MS in Petroleum technology). Associated with Statoil and NorskHydro	Trondheim, Stavanger, Norway
3	1996-1998	Associated with the Joint venture for Panna-Mukta-Tapti development.(with Enron)	Houston, USA
4	1996-2012	RIL	Mumbai
5	2012-till date	1) CEO, Oil and Gas, Oilmax, India 2) Director, Asian Energy Services Private Ltd., India 3) Director, Masirah Oil, Oman	India, Oman & Norway

1. ONGC

- ✓ Started career as a young geoscientist in ONGC in 1980
- ✓ Worked at different capacities at various locations like Assam, Gujarat, Delhi and rose to the rank of Senior Executive.
- ✓ Associated with acreage evaluation and overseas acquisitions processes with Chairman and Director Exploration.
- ✓ Worked in strategic planning and reservoir management group, especially for Bombay high and Gandhar

2. RIL

- ✓ Started the E&P business in Reliance with a 3 member team in 1996, which today stands as testimony of center of excellence in the industry today.
- ✓ Headed Exploration management team responsible for 35 domestic blocks and 10 overseas blocks.
- ✓ Significant contributions which has opened up new vistas for future development:
 - **KG world's largest gas discovery**
 - **NEC Gas discovery after 62 dry holes by previous operators.**
 - **Oil and gas discovery in the Deep waters of Cauvery basin**
- ✓ Active supervision of company's E&P activities in 7 different countries such as Oman, Yemen, Columbia, Kurdistan, Timor, Australia, Peru with varied economical, legal and technical challenges.

3. Lime Petroleum/Rex/Trace

- ✓ Involved in the assets spreading over West Africa continental margin, Norway and Oman.
- ✓ Made the first ever discovery in East Oman Offshore in 2014.

4. Oilmax

- ✓ Involved in three recent discoveries in Cambay basin during 2015 which opened up a new horizon in the old basin.

5. International Assignments

- ✓ Project on resource estimation and optimization of recovery in North Sea with Statoil and Norsk Hydro at Norway
- ✓ Associated with Panna-Mukta-Tapti Joint venture with Enron for field development and production enhancement at Huston, USA
- ✓ Chairman of International Quality & Productivity Centre (IQPC) at the Deepwater Drilling Asia 2005 Convention held in Kuala Lumpur, Malaysia.
- ✓ Chairman of Offshore Energy Conference, IBC, Singapore, April 2009
- ✓ Keynote speaker for two consecutive years during Petromin Deepwater Conference at Malaysia
- ✓ Theme speaker at the SEAPEX conference at Singapore.

Name of the Univ./Board/ Institution	Exam(s) passed	Subjects	Year of passing	Division/ Class/ position
ISM Dhanbad (Alberta University, Canada & Oklahoma University, USA)	Doctor of Science (DSc.)	Petroleum Technology	2010	
I.I.T, Kharagpur & Royal Geological Society, UK	PhD	Petroleum/ Structural Geology	1986	-
Norwegian Technological University, Norway	M.S	Petroleum Exploration & Reservoir Management	1986	I st
I.I.T Kharagpur	M.Sc. (Tech)	Applied Geology	1979	I st

Courses Conducted

- ✓ Conducted technical workshop and short courses for the professionals and international experts in Society of Petroleum Geophysicist (SPG):
 - “Marine Depositional Systems: Associated Play Concepts and Petroleum Reservoirs.”
 - “Deep Water Depositional Systems and Play Concepts.”
- ✓ Visiting professor to ISM: Conducting a course on Petroleum Exploration for both Indian and International students since 2012.
- ✓ Visiting professor to IIT, Mumbai.
- ✓ Short courses for the industry professionals, researchers and academic institutions on Petroleum Exploration, Exploitation and Development Aspects globally.
- ✓ Distinguished lectures for the SPE at Huston, Perth, Singapore and Barcelona etc.

Awards & Recognitions

International:

- ✓ **Top 100 Educators – 2009** in the arena of scientific research by IBC, Cambridge, England
- ✓ Conferred with “**Who's Who in the World**”, by American Continental Research, 2008
- ✓ **Symposia speaker award, 2000**; Brazil

National:

- ✓ Conferred the title of “**Padma Shree**”, one of the highest civilian honor by Government of India, 2007.
- ✓ **National Mineral Award** for the year 2003 for significant contribution in the field of hydrocarbon exploration.
- ✓ **Young Scientist Award**, INSA, 1990 for the best scientific paper.
- ✓ **Rajiv Gandhi Samaj Ratna Award**, 2011 for the contribution towards the betterment of society.
- ✓ **Bharat Excellence Award, 2011** by Friendship Forum of India.
- ✓ **Bharat Jyoti Puraskar**, 2017 for contribution in the field of energy, by Best Citizen Publishing House.
- ✓ **Leadership & Excellence Award in E&P-** 2010, Ocean Tex

- ✓ Infraline **Service to Nation Award** in Energy Excellence, 2007
- ✓ Ruchi **Bharat Gaurav Samman** by state of Orissa, 2007
- ✓ Awarded the **Gold Medal** during AEG Conference, 2006
- ✓ Represented India as a **special Invitee** in the **Geological congress at Baghdad, Iraq, 1998**.
- ✓ Selected as **Chairman**, evaluation committee, of one technical **session AAPG convention 1997 at Vienna, Austria**.
- ✓ **ONGC Chairman's & Director's award** during 1993-94 for significant contribution to Indian Petroleum Industry.
- ✓ **ONGC Young Executive Award, 1992** for professional excellence

Knowledge Pursuit

- ✓ Author of the first book on Indian deep water basins title “ **Geologic settings and petroleum systems of India's east coast offshore basins – Concepts & Applications**” -Technology Publications 2007, ISBN –81-901767-8-1
- ✓ Second book in **Developments in Petroleum Science**, Volume 58, Elsevier “**Basin Evolution and Petroleum Prospectivity of the Continental Margins of India**” - Elsevier Publication, 2012

- ✓ Guided five PhD works in various fields of Petroleum exploration from various institutes of India
- ✓ Conducted short courses/ workshops on “**Deep water depositional settings**” under Society of Petroleum Geophysicists in 2008, 2010
- ✓ Geology examiner for M.Tech & M.Sc courses at MIT, Pune and Utkal University, Orissa
- ✓ About **100 publications** in leading International and Domestic journals
- ✓ Membership of Professional Institutions like :
 - American Association of Petroleum Geologist (AAPG) – Active member
 - Society of Exploration Geophysicists (SEG) – Active member
 - International Geological Congress (IGC)
 - Petroleum Engineers (SPE)
 - Society of Geoscientists and Allied Technologist (SGAT)
 - Indian Geological Congress
 - Society of Petroleum Geophysicists (SPG)
 - Association of Indian Petroleum Geologists

List of Publications

Book:

1. First book on Indian deep water offshore basins :
“Geologic settings and petroleum systems of India's east coast offshore basins – Concepts & Applications” -Technology Publications 2007, ISBN – 81-901767-8-1.
2. Developments in Petroleum Science, Volume 58, Elsevier
“Basin Evolution and Petroleum Prospectivity of the Continental Margins of India” - Elsevier Publication, 2012

Research Papers:

1. Bastia R. (2004). Depositional Model and Reservoir Architecture of Tertiary Deep Water Sedimentation, Krishna – Godavari Offshore Basin, India. Journal of the Geological Society of India, Vol. 64, pp 11-20.
2. Bastia R., Sinha N., Kolla V., Singh R.J., (2005). Basin Evolution and Geomorphology of Tertiary Deep-Water Depositional Systems, Krishna-Godavari (K-G) Offshore Basin, India, AAPG Search and Discovery Article #90039©2005 AAPG Calgary, Alberta, June 16-19, 2005.
3. Bastia R., Singh P, Nayak P., (2006). Linking Shelf delta to Deep Water; Krishna-Godavari basins, Journal of The Geological Society of India, Vol. 67, pp 619-628.
4. Bastia R. (2006). High-quality Techniques of Subsurface Imaging and Reservoir Mapping of the Deep-water Neogene Depositional Systems in Krishna-Godavari Basin, East Coast of India, 26th Annual GCSSEPM Foundation Bob F. Perkins Research Conference “Reservoir Characterization: Integrating technology and business practices”, December 3-6, 2006, Houston, Texas.
5. Bastia R., (2008). Deep-Sea Basins of East Coast India Holds the Key to Future Petroleum. International Conference on Tectonics of the Indian Subcontinent, Indian Institute of Technology Bombay, Mumbai, 2008.
6. Bastia R., Nathaniel D. M., Srinivas T., D'Silva K., Verma R. (2008). Convolution of Technology and Concepts Entails Enticing Deepwater Opportunities, India SPG Conference, Hyderabad, 2008.
7. Muralikrishna A., Bastia R, Sreedhar S. V., Tyagi A. K., Bhaskar D. V., Nathaniel D. M. (2008) Controlled Source Electromagnetics Enhances Exploration Productivity Of Deepwater Regime, India .SPG Conference, Hyderabad, 2008 .
8. Bastia R. (2006) Indian East-Coast Basins and Hydrocarbon Play Types. Presented in 2006 AAPG International Conference and Exhibition, Perth,

Australia (November 5-8).

9. Bastia R., Klimentos T. (2005). Dipole sonic logs aid thin bed analysis, *Petromin*, January/February 2005, pp.52-56.
10. Bastia R., Das B., Acharya M., Gabriels P., Sams M., Mesdag P. (2005). Reservoir Characterization and modeling of thin beds in a deep water gas field, offshore India 6th International Petroleum Conference and Exhibition, Petrotech-2005, New Delhi, India.
11. Bastia R., (supervisor), Tyagi A. (Researcher), (2010). Identification and evaluation of the thin bedded reservoir potential in the east coast deep water basins of India, Synopsis: PhD Thesis (submitted), Utkal University, India.
12. Anderson B.I., Barbert T., Bastia R., Clauvaud J.B., Coffin B., DAS M., Hayden R., Klimentos T., Minh C.C. & Williams S. (2008). Triaxial induction – A new angle for an old measurement. *Oilfield Review*. 84 pp.
13. Tyagi A. K., Bastia R., Das M. (2008). Identification and Evaluation of the Thin Bedded Reservoir Potential in the East Coast Deep Water Basins of India. SPG Conference, Hyderabad, 2008.
14. Klimentos T., Bastia R., (2004). Using Dipole Sonic Logs and Rock-Physics Principles for Enhanced Detection of Thinly Laminated Gas Sands. Paper presented at the 66th EAGE Conference, Paris, France.
15. Bastia R., Saxena K., Tyagi A. (2008). Evaluation of low resistivity-pay deepwater turbidities using constrained thin-bed petrophysical analysis. SPE Annual Technical Conference and Exhibition, California, U.S.A.
16. Bastia R., Biswal A., Das B., Charles S. E., Volterrani S., Hughes K. (2008). Pre-stack Seismic Inversion for Improved Reservoir Characterisation of KG Basin Deep Water Channel Sands – Case Study with Drilling Results, SPG Conference, Hyderabad, 2008.
17. Bastia R., Radhakrishna M., Srinivas T., Nayak S., Nathaniel D.M., Biswal T.K. (2010). Structural and Tectonic Interpretation of Geophysical data along the Eastern Continental Margin of India with special reference to the Deep Water Petroliferous basins. *Journal Asian Earth Sciences*, Elsevier Ltd. doi:10.1016/j.jseaes.2010.04.031.
18. Bastia R., Das S., Radhakrishna M. (2010). Pre and post collisional depositional history in the upper and middle Bengal fan and the reservoir potential along the north east continental margin of India, *Marine and Petroleum Geology*, Elsevier Ltd. doi:10.1016/j.marpetgeo.2010.04.007.
19. Bastia R., Radhakrishna M., Das S., Kale A. S., Catuneanu O. (2010). Delineation of the 85 E ridge and its structure in the Mahanadi offshore basin, eastern continental margin of India (ECMI), from seismic reflection imaging. 2010 Elsevier Ltd. *Marine and Petroleum Geology* Elsevier Ltd, doi:10.1016/j.marpetgeo.2010.08.003.
20. Bastia R., Chakbartory S., Guha J., Misra B., (2006). Depositional Architecture of Mio-Pliocene Sequence in Offshore Bengal Basin, *Journal Geological Society of India* vol. 67, pp 575-583.
21. Bastia R. (2006). An overview of Indian Sedimentary Basins with Special Focus on Emerging East Coast Deep Water Frontiers. *The Leading Edge*, July 2006, pp 818-829.
22. Bastia R., Nayak P., (2006). Tectonostratigraphy and depositional patterns in Krishna Offshore Basin, Bay of Bengal. *The Leading Edge*, July 2006, pp 839,845.
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24. Naik, G. C., Padhy, P. K. & Bastia R. (1987). Variation of Cambay Basin Crudes; A possible model; *Proceedings of the Diamond Jubilee National Symposium*, ISM, Dhandbad.
25. Bastia, R (1988). Permeability Pathways detection in hard rocks; Abstract Volume of ISC, Pune.
26. Padhy, P. K., Bastia R. (1988). Radioactivity anomaly mapping; A technique for hydrocarbon exploration Case History Studies; Workshop on Detection of Geochemical Anomalies by Geophysical Methods, N.G.R.I., Hyderabad.
27. Padhy, P. K., Bastia R. (1988). Log response analysis for source rock identification in Olpad Formation. South Cambay Basin; Abstract volume of ISC Madurai.
28. Naik G. C., Padhy P. K. & Bastia R. (1988). Relationship between Physioco-chemical parameters of Cambay Basin Crudes – A Geostatistical approach; *ONGC Bulletin*.
29. Bastia, R. (1989). Flow Identification and Bimodal Environmental Interpretation of Deccan Volcanism; *ONGC Bulletin*.
30. Bastia R., Thakre A. N. (1989). Indian Hydrocarbon Strategy and future alternative energy scenario; *Proceeding volumes of Centenary Conference in OIL*, Duliajan.
31. Bastia R., Thakre A. N. (1990). A view on Cachar Exploration – National Seminar on Fuel Resources of North Eastern India Dept. Of Earth Science, Manipur, Imphal.
32. Bastia R., Naik G. C., Mahapatra P. (1991). Hydrocarbon prospects of

- Schuppen belt, Assam- Arakan Basin – Second seminar on Petroliferous Basins of India, KDMIPE
33. Kak H.L., Bastia R. et.al (1994). Exploration for subtle traps with paleogeographic maps, Hazad member, Gandhar – Jambusar area – ONGC bulletin.
 34. Kak H. K., Bastia R & Patel M. J. (1994). Role of faults in locating isolated oil pools in Ankleshwar field: A case study; Journal of Petroleum Geology; April – June P-45-51
 35. Srinivasan S., Bastia R. (1994). Bombay offshore Basin – A Reprospect and prospect; Oil Asia Journal.
 36. Sedgeley D., Shareen Y., Bastia, R – (1997). Petroleum Potential of the Banni Graben, Kutch Basin AAPG Conference, Vienna, Austria
 37. Bastia R. (1998). Sedimentary Basins of India; A new Insight Geological congress, Baghdad, Iraq.
 38. Bastia R. (1999). Indian Deep Water Basins “Holds the key for the new millennium” 36th Annual Convention and Meeting on Earth System Sciences in the next Millennium, Indian Geophysical union.
 39. Jain M. J. & Bastia R. (2000). 3D seismic aids in tectonic reconstruction – 3rd Conference & Exposition in Petroleum Geophysics, New Delhi 2000
 40. Bastia, R, (2000). Indian Deep Water Basins: Holds Hot plays for New Millennium”, key note for 31st International Geological Congress to be delivered at Rio-de-Janeiro, Brazil.
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 49. Bastia R. Klimentos T. (2005). Indian Deepwater Exploration, Concepts, Technology and Challenges, SEAPEX 2005, Singapore
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 58. Noon S., Bastia R., Yesudian V., Wantoro, Setiani H. (2007). High Resolution Neogene Biostratigraphy of Deepwater Frontier Areas: The East Coast of India. Presented during Petrotech 2007, New Delhi.
 59. Nayak S., Mishra C.K., Malasi S., Nayak S. 2007. Fault interpretation using seismic attributes: concepts and application. .Presented at National seminar on modern trends in geophysical sciences and techniques, ISM, Dhanbad.

60. Bastia R. (2008). Deepwater; The Third Wave of Exploration in India. Key note address at National conference on MTGST, Indian School of Mines University, Dhanbad, 2008.
61. Bastia R., Biswal A., Das B., Shepherd Charles E., Stefano Volterrani, Kim Hughes (2008). Pre-stack Seismic Inversion for Improved Reservoir Characterisation of KG Basin Deep Water Channel Sands – Case Study with Drilling Results, SPG Conference, Hyderabad, 2008
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63. Bastia R., Verma R., Nathaniel D. M., Mahapatra S., Saxena M. (2008). Seismic Expressions of Igneous Flows - Hydrocarbon Prospectivity: Kerala-Konkan Basin, India. SPG Conference, Hyderabad, 2008.
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66. Bastia R., Mahapatra S., Nathaniel D. M., Srinivas T., Verma R. (2008). Shallow Evidences for Deeper Hydrocarbons –A Step towards Establishing Petroleum System. SPG Conference, Hyderabad, 2008
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69. Bastia R., Srinivas T., Muralikrishna A., Nathaniel D. M., Mishra C. (2008). Dovetailing Macro and Micro Tectonics for Prospect Level Structural Synthesis, Kerala Konkan Basin, India SPG Conference, Hyderabad, 2008
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71. Bastia R., Nathaniel D. M., Verma R., Srinivas T., D'Silva K. (2008). New Face of Deepwater Kerala, India: Ground for Elephant Hunting AAPG Annual Convention, San Antonio, Texas, 2008
72. Bastia R., Krishna K.S., Nathaniel D. M., Srinivas T., (2008). Impact of Vishnu Fracture Zone on Tectono-Stratigraphy of Kerala Deepwater Basin, India. AGU, 89(53), Fall Meet, 2008 Bastia R., (2008)
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77. Duggirala M.N., Bastia R., Tenepalli S., Akella M., Verma R., D'Silva K., (2008). Mesozoics of the south western margin of India: A frontier exploration. 19th World Petroleum Congress, Spain 2008.
78. Nayak S., Bastia R., Das M. (2008). Seismic stratigraphy and depositional architecture of quaternary-tertiary sediment in krishna offshore, east coast of India. Jour. Indian Association of Sedimentologists, Vol. 27, No. 2(2008), pp. 135-143.
79. Nayak S., Bastia R., Das M., (2009). Characterisation of depositional processes and identification of shallow drilling hazards in a growth fault setting using seismic data ; a study from godavari offshore, east coast of India. Jour. Indian Association of Sedimentologists, Vol. 28, No. 2(2009), pp. 7-14.
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82. Bastia R., Reeves C., Rao D.P., D'Silva K., Radhakrishna M., (2010). Paleogeographic Reconstruction of East Gondwana and Evolution of the Indian Continental Margin. DCS-DST News , August 2010
83. Protacio J.A., Gupta N., Chandra A., Yadav R., Bastia R., Sanghvi P., (2011). Interpretation of Gravity and Magnetic Data at the Krishna-Godavari

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National Mineral Award-2003 is conferred upon Dr. Ravi Bastia in recognition of his distinguished contribution in the field of Oil and Natural Gas.

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भारत सरकार
Sri Ram Ola
Minister of Mines
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24/03/05

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सचिव, भारत सरकार
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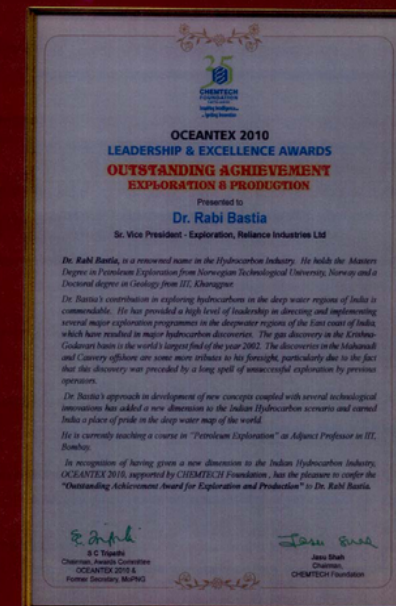
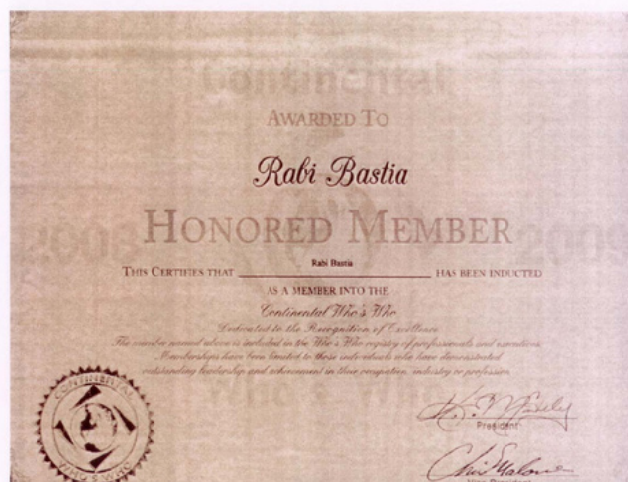


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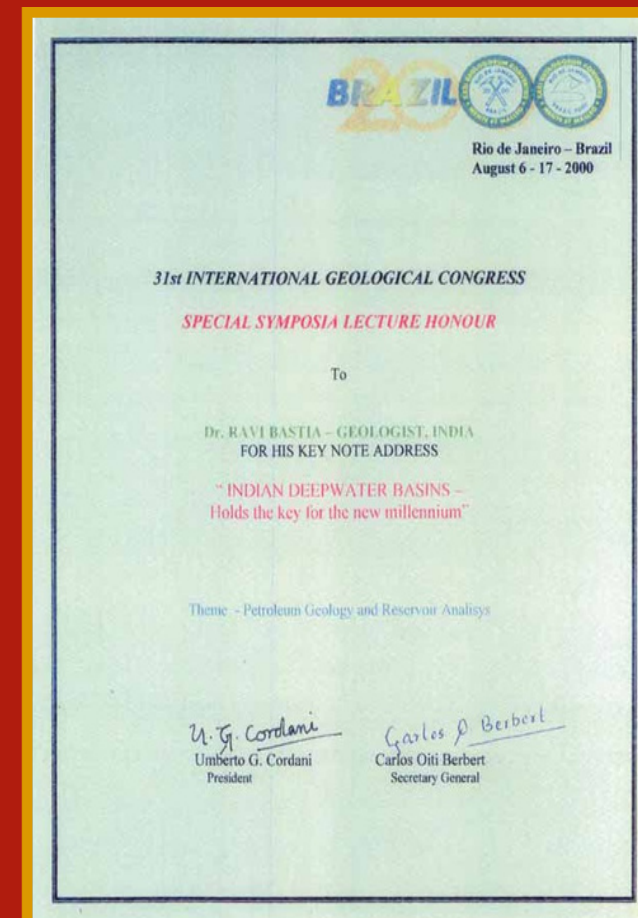
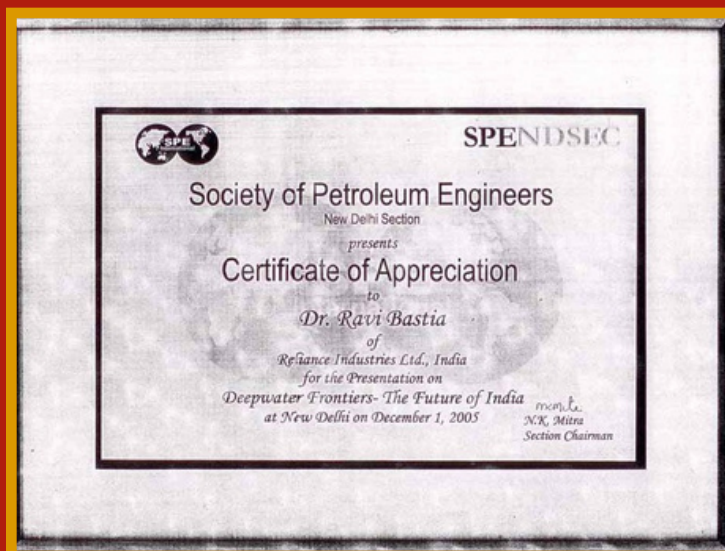
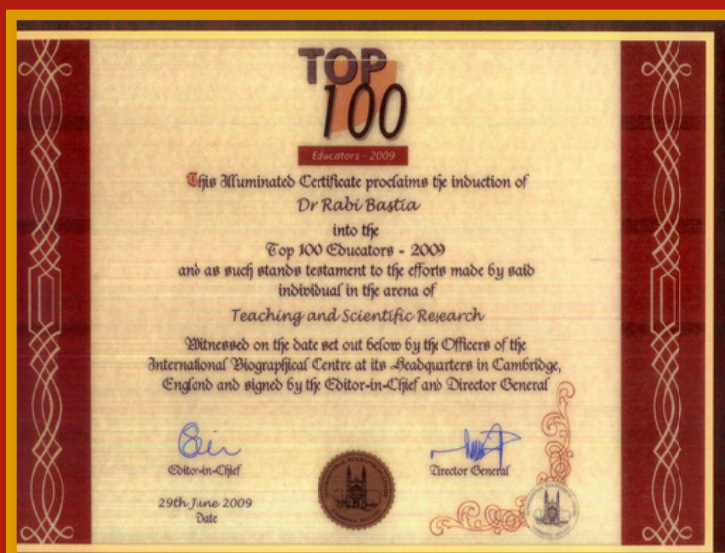
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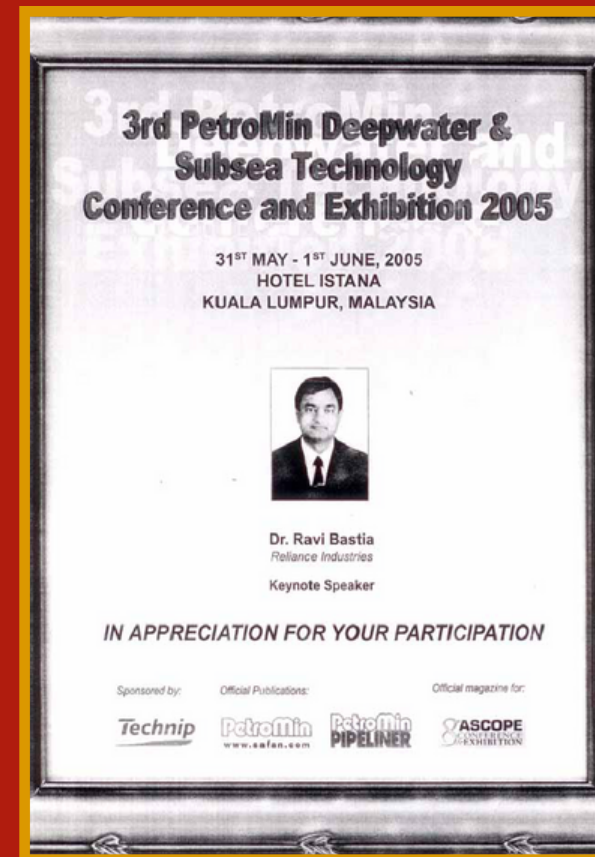
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