



Indian Geological Congress IGC

18th Biennial Report for the years 2012-2013

(Actual period November 2011 to March 2013)

Mr. President, Members of the Executive Council and the IGC members,

18.01 I have great pleasure in welcoming you to the 18th General Body Meeting (GBM) of your Society in the Vigyan Bhavan of the Madhya Pradesh Council of Science and Technology, an autonomous organization of the Department of Science and Technology, Govt. of Madhya Pradesh, Bhopal. Copies of the Minutes of the 17th GBM are in your hand and hopefully this will be found in order.

18.02. We happily welcome our 18th President. Shri Sunil Kumar Srivastava, CMD, Oil India Ltd. It is a special event as the outgoing and in-coming Presidents of IGC belong to the same organization. Sri Srivastava has more than three decades of serving the Oil India and is recognized as a distinguished accomplished expert in the area of hydrocarbons exploration and development. We hope that under his guidance the Indian Geological Congress will attain new heights.

18.03 Life Members The life membership of the IGC has risen from 761 reported last to 826 today (27th April 2013). We thank all the members for their interests, zeal and cooperation in supporting the IGC activities. IGC is aggrieved to report the sad demise of our following members;

G.S. Mehrotra (LM 92), A.K. Dube (LM 223), C.S. Mohan (LM 216, President, IGC 1995-97), Prof. Sri Niwas (LM- 330), and Prof. S.C. Puranik (LM – 545)

18.04 Executive Council

The New Executive Council took charge on 14th March, 2013 with Shri S.K. Srivastava presenting a memento, on behalf of the IGC, to the outgoing President, Shri N.M. Borah. The composition of the new Executive Council is printed in the Pre-Convention Volume, 2013, which is kept in your delegate bag.

18.05 The 17th Biennial Convention (IGC-2011) was successfully held at the Indian School of Mines, Dhanbad, alongwith the International Conference on '*New Paradigm of Exploration and Sustainable Mineral Development: Vision 2050*'. A detailed Report on the event has been published in the Journal Ind. Geol. Cong. Vol.3 (1), pp. 114-118. Full papers and Abstracts were preprinted

and the volume was distributed to the delegates. A few copies are available for sale at IGC's Roorkee office.

18.06 Prof. A.G. Jhingran Memorial Lecture Series

The 15th Prof. Jhingran Memorial Lecture was delivered by Prof. H.B. Srivastava, Prof. & Head, Department of Geology, BHU, at the Department of Geology, Andhra University, Vishakhapatnam on the 10th December, 2012. Thanks may be recorded for Prof. T.Vinoda Rao, Head Geol., Dean of Science and Principal College of Science and Technology of the University. A report on the same is available in the Journal Ind. Geol. Congress, Vol. 4, No. 1, pp 135-143, and the lecture has been printed on pp. 5-20. Some copies of the lecture are available and interested members may write to the Secretary for a copy.

18.07 IGC Foundation Lecture Series

18.07.1 The 14th IGC Foundation Lecture was delivered by Professor Vijay P. Singh on '*Entropy Theory for Earth Science Modeling*' on Feb. 15, 2011, at the Indian School of Mines, Dhanbad. The lecture was highly acclaimed to be a trendsetter by the audience. The lecture is printed in the Jour. Ind. Geol. Cong., Vol. 2 (2), pp 5-40.

18.07.2 The Fifteenth IGC Foundation Lecture was delivered by Prof. Naresh C Mehrotra on "*High Impact Palynology in Hydrocarbon Exploration in Petroliferous Basins of India with Recent Achievement from Frontier Areas*", at the Department of Geology, Banaras Hindu University on August 11, 2011. The Lecture is printed in the Journal Ind. Geol. Congress Vol. 3 (1), pp. 33-71.

18.07.3 The Sixteenth IGC Foundation Lecture was delivered by Sri Y.B. Sinha, Former Director Exploration, ONGCL on "*Opportunities and challenges in upstream sector*" in the Zaloni Auditorium of the Oil India Ltd., at Duliajan on 3rd March 2012. A report on the event appears in Journal Ind. Geol. Cong., Vol. 3 (2), pp. 65-74.

18.08 Professor Prem Bahadur Verma Memorial Lecture (PBV Series).

The Fifth PBV Memorial Lecture was delivered by Sri Rasik Ravindra on *Geomorphic Evolution of Schirmacher Oasis with Special Reference to Depositional and Erosional Landforms* on Feb. 3, 2012 at the Centre of Advanced Study in Geology, Panjab University, Chandigarh. A report on the event appears in the Jour., Ind. Geol. Cong., Vol. 3 (2), November-2011, pp 61-64.

18.09 – Publications of the Society

IGC publishes a biannual Journal dated May and November each year. Member will recall that besides an editorial written by Prof. O.P. Varma, it publishes original research papers and the lectures delivered by experts under the three Memorial Lecture Series (IGC Foundation, Prof. A G Jhingran and Prof. Prem Bahadur Verma), and Short communications. There is a section on Reports on events and matters, a section on Recent Publications including non-IGC publications, Reportages on Domestic Events, Book Reviews and Science News Round-up. List of new Life members is also a regular feature. Full Audit Report is published as soon as it is approved by the Executive Council. A summary of Forthcoming Events, including future programmes of IGC forms another essential aspect. Obituaries form a part of each issue, howsoever, we may wish an eternal life for our members and scientists at large. The latest issue Vol. 4, No. 1 (May 2012) includes “*Dedicated to GREEN EARTH Pages*”.

Besides the Journal, IGC published the lectures delivered under the Memorial Lecture Series for distribution to the audience.

Two important recent publications of the IGC are still available for sale:

1. *Unconformity – Riddled cenozoics of the Foreland Basin and Elevation of the Himalayas* by V. Raiverman, the eminent geologist retired from ONGC. The Volume has been edited by Prof. O.P. Varma.
2. *New Paradigms of Exploration and Sustainable Mineral Development: Vision 2050*. Volume is edited by Prof. O.P. Varma, Prof. B.C. Sarkar, Prof. A.K. Varma, Dr. M.K. Mukherjee and Dr. Sahendra singh

IGC Members get a 50% discount.

18.10 Financial Status

The audited account for the year ending 31 Mar. 2013 is not yet available. The Audit Report for the F.Y. 2011-12 (printed in Jour. Ind. Geol. Congress Vol 3 (2), pp. 86-95), was considered and approved, vide Minutes 42.16 of the meeting of the Executive Council, held on 17th Aug. 2012 in New Delhi. The Audit Report is put up for confirmation. Following excerpts of the Audit Report, should prove the current financial status of your Society.

BALANCE SHEET AS AT 31ST MARCH, 2012

PARTICULARS	SCHEDULE NO.	AMOUNT	
		Rs.	P.
(A) <u>SOURCES OF FUNDS</u>			
- I.G.C. FUND	1		3840901.00
- GSI, ENDOWMENT FUND	2		100000.00
- PROF. P.B. VERMA MEMORIAL FUND	3		100000.00
- BUILDING FUND	4		3091398.00
***** TOTAL [RS.] *****			7132299.00
(B) <u>APPLICATION OF FUNDS</u>			
Fixed Assets	5		271711.00
Investments	6	6702815.00	
<u>Current Assets</u>			
- Telephone Security		3960.00	
- Electricity Security		4000.00	
- Cash & Bank Balances	7	489148.00	
- Advances	8	68254.00	
		<u>7268177.00</u>	
<u>Less : Current Liabilities & Provision</u>			
- Anubhav Printers Roorkee		272710.00	
' - SBI Roorkee		134879.00	
		<u>407589.00</u>	6860588.00
**** TOTAL [RS.] ****			7132299.00

INCOME & EXPENDITURE ACCOUNT OF ADMINISTRATIVE ACCOUNT
FOR THE YEAR ENDED 31ST MARCH, 2012

PARTICULARS	SCHEDULE NO.	AMOUNT	
		Rs.	P.
A) <u>INCOME</u>			
<u>GRANT -IN- AID</u>			
MOES New Delhi			950000.00
ii) IGC Receipts	9		65000.00
Interest & Dividend	10		744417.00
Other Income	11		543980.00
*** TOTAL [RS.] (A) ****			2303397.00
B) <u>EXPENDITURE</u>			
- Administrative Exps.	12		1650837.00
*** TOTAL [RS.] (B) ****			1650837.00
C) Excess of Expenditure over income	C= (A-B)		652560.00
Notes to the accounts and significant accounting policies	13		

During the F.Y. 2012-13, the IGC has received/sanctioned* grants as per details given in the following table.:-

Financial Grants Sanctions/Received during 2012-13

S.No.	Sanctioning Authority/ Organisation	Programme/Activity	Amount
1	NCAOR, Goa	Advertisement in IGC Journ.	20,000.00
2	MoES, New Delhi	Celebration of Earth Day – 2012	4,50,000.00
3	DST, New Delhi	Conference on Green Earth, Dehradun	1,00,000.00
4	M/s Schlumberger Asia Services	IGC activities	2,00,000.00
5	DST, SERC Division	Publication IGC Journal	1,25,000.00
6	MoES, New Delhi	Conference on Green Earth	4,75,000.00
7	NACOR, Goa	Advertisement in Green Earth Circular	20,000.00
8	OIL, Noida	Dinner for Green Earth Conference	1,25,000.00
9	MoES, New Delhi	Publication of IGC Lecture Series and Lecture in Hindi for awareness in geosciences	2,69,734.00*
10	OIL, NOID	Organization Sponsorship for IGC	3,00,000.00
11	OIL, NOID	Advertisement	25,000.00
12	NCAOR	Advertisement	40,000.00
13	ONGC, Delhi	IGC Activities	42,820.00
14	ONGC, Delhi	Advertisement	25,000.00
Total (Excluding serial 9)*			19,47,820.00

18.11 Building Fund – A special mention of the Building Fund is necessarily here.

The Building Fund stood at Rs. 30,91,398/= as on 31 March, 2012. Until the writing of this report the Fund amounted to Rs. 31,17, 198.00. List of donors is attached (App. 18.11A). The amount, as would appear, is too small for the purchase of land for IGC Complex, even for constructing any building. Members would agree that for a building which may house the office of the IGC, its publication, dispatch and storage units, a Library, and Reading room, an Auditorium, a Meeting Hall and a moderate Guest-house to accommodate IGC members, who may wish to come to Roorkee or stay enroute to Himalayan for field work or pilgrimage, must need about 600 sq. mt. area. Since the horizontal space is very costly, we would have to go vertical. The space itself would need more than Rs. one Crore and add equal amount for the preliminary construction. The fund has to be raised four times than what it is today, in order to let IGC activities not suffocate. It would not be unfair, if I request the Indian Geologists, in general, and members, in particular, to liberally donate for the cause. Currently, the IGC is operating from a complex made by Prof. O.P. Varma on the first floor of his house and falls extremely short of the requirement even for storing copies of the Journal and other publications and dispatching them to members in a smooth manner. Prof. Varma is planning further extension for the sake of IGC.

18.12 Members will be glad to know that initiative of Prof. O.P. Varma with International Geol. Congress in Norway and in Australia have borne fruits and that the Indian Geological Congress went International with Prof. V.C. Tewari, Vice President, hosting on behalf of your Society a meeting of the Indian delegates, including IGC members during the 34th International Geological Congress on 7th August 2012 at Brisbane, Australia. We must appreciate the initiative taken by our Executive President in this regard.

18.13 To report that the IGC has received on Nov. 2, 2012, a sum of Rs. 6,18,239/= being the 50% share in savings of the 17th Convention, held at ISM, Dhanbad. Sincere thanks and applause is due to Prof. B.C. Sarkar, the Convenor and the Vice-President, IGC.

18.14 Earth Day 2011 and 2012

Members will be happy to know that IGC took several initiatives towards focusing the citizen's attention on pollution control, plantation and environmental awareness by printing banners, hoardings, distributing well documented pamphlets and flyers, etc. It organized Essay Competition for School Students at Roorkee and Dehradun. IGC also organized an on-the-spot Painting Competition for students of Class VI –XII at Roorkee. A Quiz Competition was organized for Post-graduate students and research scholars of Uttarakhand and neighbouring universities, including Delhi, Chandigarh and Kurkshetra. All the prizes were presented to the winners during the Inaugural Session of the National Conference on Green Earth, on Oct. 18, 2012 at Dehradun. A vivid report of the celebration appears in Jour. Ind. Geol. Cong. Vol. 3(2), pp. 75-80.

- 18.15** Members are aware that the National Conference on Green Earth with Focus on the Himalaya was successfully held on *Oct. 18 and 19, 2012*, with a Brain-Storming Panel Discussion, held on Oct 20, 2012. A detailed report on the event has been published in *Jour. Ind. Geol. Cong. Vol. 4 (1), May 2012, pp-144-154*. The event was organised, courtesy Prof. Anil K. Gupta, Director, Wadia Institute of Himalayan Geology. The Conference was primarily supported by the Ministry of Earth Sciences, Govt. of India. A Pre-Conference Volume was published and distributed to the delegates. It contained full papers and Extended Abstracts of Key-note Addresses and Abstracts of other papers and poster presentation. IGC gave away cash prizes and merit certificates to the best ten posters – one first prize of Rs. 5000/=, four second prizes of Rs. 3000/= each, and three third prizes of Rs. 2000/= each. The recipients included Dr. Sushil Kumar, Ansuya Bhandari, Bhanu Pratap, Amiya K. Samal, B.N. Tewari, Sasank Sekhar Deb, Sandeep Kumar Chatak, Kapil Kesharwani, Kapesa Lokho and Meera Tiwari. Prize for the awardees of Earth Day Programmes held in 2011 and 2012 were also awarded during the inaugural function of this Conference.
- 18.16** Members will appreciate that the maiden lecture of the in Hindi series to popularise geology has been delivered by Prof. V.C. Tewari, Scientist G, Wadia Institute of Himalayan Geology and Vice President, IGC, at LSM Govt. P.G. College, Pithoragarh, on the 5th April, 2013. The lecture was entitled, “*Madhya Himalaya (Uttarakhand) Ka Bhuvigyan, Paryavaran evam Vikas-Niti*”. Copies are available in the kit-bags of the delegates to the 18th Convention.
- 18.17.** Members will be glad to know that a Special Programme on “What aids earth sciences in India – Geosciences career opportunities continuum (Oil Sector in particular) may be organised at Itanagar during the year 2013. Later on, similar programme may be organized at Trivandrum, Jodhpur and Guwahati. Suggestions of the members are solicited to make the programme constructive and useful to the nation. The programme is the brain-child of Prof. O.P. Varma who thought that “*In the contemporary world, oil and natural gas are central to modern life in many different ways – cooking, automobiles, chemicals, plastics, textiles, medicines, fertilizers, etc. Their use to these various products by humans is sure to stay for considerably a long time in India*”. It’s the prime duty of geoscientists to make available quantities of these non-renewable sources of energy to the society. To satisfy this national need and support to Prime Minister’s National Council for Skill Development (NCSDD), the think-tank of has conceived the programme to be offered at national level”.
- 18.18** The Executive Council of the IGC was considered to be too large and a committee was appointed to suggest modifications to the Article 10.3 of the Memorandum and Articles of the Memorandum and Articles of the IGC. The matter was discussed (Vide agenda 43.14) at the Forty-third meeting of and the following resolution was passed: -

“It was decided that no change in the membership of the Executive Council is required at present, except that instead of representatives of the four State Directorates (under Art. 10.3 (c)) be reduced to one”.

“Further resolved that under Art. 10.3 (c), the Director of the State Directorate of Geology and Mines of the State in which the IGC Convention is being organised, or his nominee, will be a member of the Executive Council”. The term of the Director will coincide with that of the Vice President/Secretary/Joint Secretary of the Convention.

The matter is put up to the GBM for ratification.

18.19 Acknowledgement

I acknowledge the patronage of the President, Shri N.M. Borah and Shri Sunil K. Srivastava, who oversaw the activities of the your Society. The Indian Geological Congress will ever be grateful to the enthusiasm, zeal, and the total devotion of Prof. O.P. Varma, Executive President and the Editor and the *Think-tank* of the Indian Geological Congress, who defies the age and is always ready to fight against all odds. A look at any publication of the IGC is sufficient to find Prof. Varma’s editorial imprints. IGC is currently housed in a structure build by him on the first floor of his residence and he is planning a further extension of the same until own building of the IGC comes up. His efforts towards the growth of IGC are unparallel on all fronts - academic, financial, managerial and human. Thanks are due to the members of the Executive Council and the office-bearers for their constant help. Help received from Prof. A.K. Saraf, Prof. D.C. Srivastava, Dr. (Mrs) Aneeta Srivastava and Late Shri Vineet Chandra in organizing the Green Earth programmes is gratefully acknowledged. IGC has also received help for local Nagarpalika and schools and we thank them all.

I wish to thank Dr. (Mrs) Anita Varma, Assistant Editor, who shares a large burden of publications with Prof. Varma. Among other Staff members of IGC, I wish to appreciate and thank Shri K.C. Gulati, Accountant, Shri Intzar Ali, Computer operator and Shri Jagdish Prasad, Computer operator. I thank Shri K.C. Tewari, our internal auditor. Thanks are also due to Shri Sanjeev and Mrs. Geeta for the work they do for IGC office.

18.20 Encomium

All said and done, IGC owes to the funding agencies for all its activities. We are grateful to the Ministry of Earth Sciences, Govt. of India for sponsoring most of our programmes. We are also indebted to the Department of Science and Technology MoST, Govt. of India, Oil India Ltd., Oil and Natural Gas Corporation Ltd. amongst other agencies supporting our programmes. We thank academic institutions such as, IIT, Roorkee, ISM, Dhanbad, Wadia Institute of Himalayan Geology, Dehradun; Banaras Hindu University, Andhara University, National

Geophysical Research Institute, Hyderabad and Panjab University, Chandigarh and LSM Govt. P.G. College, Pithoragarh for hosting our programmes. We have assembled here under an invitation from the Madhya Pradesh Council of Science and Technology and they deserve our appreciation. We should profusely applaud the faith kept by all the Ministries of the Govt. of India, Public Sector organisations and the Private Sector Professional Institutions in our delivery system and for supporting the IGC with the required financial inputs within their constraints, without which it would not have been possible to serve the science and the nation by the Indian Geological Congress.

I am pleased to inform you, that IGC has received or has been sanctioned following funds for this Convention and the Executive Council meeting held on the previous day has approved its announcement.

1. M/s Gas Authority of India Limited (co-sponsor)	Rs. 10,00,000/-
2. Oil India Limited	Rs. 4,90,000/-
3. M/s Schlumbergar Asia Services Ltd.	Rs. 1,00,000/-
4. Department of Science & Technology,	Rs. 1,50,000/-

Let us all thank the donor agencies.

Vimrigravi Prithivi – the worth exploring, earth is waiting for our contribution. Jai Hind.

Date: - 26.04.2013
Roorkee

(V.K.S. Dave)
Secretary, IGC