



Bangladesh Academy of Sciences NEWSLETTER

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NATIONAL EVENTS

I. Induction of Dr. Md. Sirajul Islam, Emeritus Scientist, Environmental Microbiological Laboratory, ICDDR,B as Fellow, BAS

BAS Council in its 29th meeting held on 13 October 2015 endorsed the election of Dr. Md. Sirajul Islam, Emeritus Scientist, Environmental Microbiological Laboratory, International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR,B), as a Fellow of the Academy. The BAS Council (July 2016-June 2019) in its 8th meeting held on 31 January 2017, inducted Dr. Md. Sirajul Islam as Fellow, BAS.



BAS Council Members are presenting flower bouquet to Dr. Md. Sirajul Islam

The Secretary of the Council, Prof. Mesbahuddin Ahmed presented Dr. Md. Sirajul Islam and proposed to the President, BAS and the Council for induction of Dr. Md. Sirajul Islam, as Fellow, BAS. President, BAS Prof. Emeritus Dr. Aminul Islam accepted the proposal and conducted the Oath Ceremony of Dr. Md. Sirajul Islam, Emeritus Scientist, Environmental Microbiological Laboratory, International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR,B). Dr. Islam accepted the fellowship, took the oath and promised to promote the cause of science and to serve the Academy according to its Charter and Rules and Regulations.

II. BAS-FSIBL Divisional Science Olympiad 2017, On 13 January 2017

The Bangladesh Academy of Sciences (BAS) - First Security Islami Bank Ltd (FSIBL) Divisional Science Olympiad 2017 was held successfully this year at the divisional levels on Friday, 13 January 2017 at 30 centers in the country of which 7 centres were in metropolitan Dhaka and 23 centers were throughout the country covering the remote areas, like Mongla Port in the Southwest, Bandarban, Khagrachari in the Southeast, Sylhet in the Northeast, Rangpur and Dinajpur in the Northwest region of the country.



Science Olympiad 2017 inauguration at St. Joseph Higher Secondary School, Dhaka



The winners and organizers at Metropolitan University, Sylhet



The winners and organizer at Bangladesh Rice Research Institute, Gazipur



A winner receiving certificate at Kamarpara School and College, Uttara, Dhaka

The results of the Science Olympiad 2017 at divisional level are as under:

Attendance of students in different centers-

Sl. No.	Organizations	SSC group	HSC group	Total
1.	Rajshahi University	96	60	156
2.	Chittagong University of Engineering & Technology (CUET)	96	77	173
3.	International Islamic University, Chittagong	264	134	398
4.	Metropolitan University, Sylhet	103	100	203
5.	Patuakhali Science and Technology University (PSTU)	159	131	290
6.	Bangabandhu Sheikh Mujibur Rahman Science & Technology University (BHMSTU)	120	72	192
7.	Hajee Mohammad Danesh Science and Technology University	115	125	240

1.	Khulna Govt. Girls College	84	70	154
2.	Matamuhuri Degree College, Lamma	74	77	151
3.	Khagrachori Cantt. Public School and College	85	71	156
4.	Digraj Degree College, Mongla	115	78	193
5.	Rajendra University College	75	84	159
6.	Ananda Mohan University College	85	78	163
7.	Comilla Victoria Govt. College	115	143	258
8.	Pabna Edward College	76	90	166
9.	Govt. Azizul Huque College, Bogra	120	72	192
10.	Carmichael College, Rangpur	90	80	170
11.	Govt. Barisal College	57	68	125
12.	Gurudayal Govt. College, Kishoreganj	67	98	165
13.	Kushtia Govt. College	150	200	350
14.	Noakhali Government College	88	64	152
15.	Govt. Saadat College	68	50	118
16.	Bangladesh Rice Research Institute Gazipur	110	75	185
17.	Dhaka Imperial College	448	402	850
18.	Banglabazar Govt. Girls High School, Banglabazar, Dhaka	170	21	191
19.	St. Joseph Higher Secondary School, Mohammadpur, Dhaka	88	92	180
20.	Notre Dame College, Motijheel, Dhaka	125	95	220
21.	Jahangirnagar University School & College, Savar, Dhaka	214	152	366
22.	Kamarpara School and College, Uttara, Dhaka	122	53	175
23.	Uttar Kafrul High School Kafrul, Dhaka	119	26	145
Total		3698	2938	6636

III. Academy Lecture on "Influence of natural light and LED illumination on human cognition" by Prof. Dr. Hartmut Baerwolff, Germany, 01 February 2017

Prof. Dr. Hartmut Baerwolff, Head of the Department of Analog and Optoelectronic, Technical University of Cologne, Germany, presented a paper on "Influence of natural light and LED illumination on human cognition" in the seminar room of the Academy on Wednesday, 01 February 2017 at 3.30 pm. More than 100 participants including Fellows,

scientists and researchers, teachers and students from different universities and research organizations were present during the lecture.



Presentation by Prof. Dr. Hartmut Baerwolff



Fellows, scientists and researchers in the lecture

Prof. Dr. Naiyyum Choudhury, Vice President, BAS presided and Professor Dr. Mesbahuddin Ahmed, Secretary, BAS moderated the lecture. Prof. Dr. Golam Abu Zakaria, Expatriate Fellow, BAS introduced the speaker to the audience. The main theme of the paper was the effect of natural light and light from other sources having different colour, intensity, illumination on the complex human nerve system in respect of understanding, memorizing and perception of the human in different environment.



Vice President & Secretary, BAS and the speakers

A lively discussion followed after the presentation with questions and comments and the speaker answered all questions and comments. The seminar ended with thanks to and from the audience. Professor Choudhury summarised the presentation and highlighted its significance in everyday life.

IV. BAS-FSIBL National Science Olympiad, 24 February 2017

The Bangladesh Academy of Sciences (BAS)- First Security Islami Bank Ltd (FSIBL) National Science Olympiad 2017 was held successfully this year both at the divisional level and national level. The BAS Science Olympiad 2017 was sponsored by the First Security Islami Bank Ltd. The Science Olympiad 2017 at divisional level was held on Friday 13 January 2017 at 7 centers in the metropolitan Dhaka and 23 centers throughout the country.

The Science Olympiad 2017 at national level (NSO 2017) was held on Friday, 24 February 2017 at the Curzon Hall premises and auditorium, Dhaka University. The Science Olympiad started at 9.00 am with the National Anthem and flag hoisting. Prof. Dr. Naiyyum Choudhury, Vice President of the Academy hoisted the national flag and inaugurated the National Science Olympiad 2017. The Academy flag was hoisted by Prof. Dr. Z N Tahmida Begum, Treasurer, BAS and Prof. Dr. Mohammad Ali Asgar, Fellow, BAS and Convener, BAS-FSIBL Science Olympiad 2017. The flag of First Security Islami Bank Ltd was hosted by Mr. Abdul Aziz, Deputy Managing Director, FSIBL. The BAS National Olympiad 2017 started through release of pigeons, balloons and festoons. Prof. Dr. Naiyyum Choudhury, Vice President, BAS and Coordinator of the National Science Olympiad 2017 moderated the day-long program. Prof. Dr. KM Sultanul Aziz, Immediate Past Secretary, BAS inspired the young participants to develop the country through promotion of science education and research. Prof. Dr. Mohammad Ali Asgar inspired the students to study science for the development of the country. Prof. Dr. Z N Tahmida Begum also advised the students to work for promotion of Science at all level. The Olympiad 2017 examination started in Curzon Hall Auditorium at 10.00 am and continued for one and a half hour. The open question and answer session started at 1.00 pm and continued up to 2.30 pm.



Inauguration of BAS-FSIBL National Science Olympiad 2017



Guests and winner students of BAS-FSIBL National Science Olympiad 2017

The popular Science writer, Prof. Dr. Zafar Iqbal was present in the open question session and replied to the queries of the students. Mr. M A Muhit two times Everest conqueror also presented his experience through slide presentation. Ms. Wasfia, another lady Everest conqueror also presented her experience during the Mount Everest mission.

The Prize Distribution Ceremony was held at 3.00 pm. Mr. Nurul Islam Nahid, MP, Hon'ble Minister, Ministry of Education was the Chief Guest and Professor Dr. AAMS Arefin Siddique, Vice Chancellor, Dhaka University and Mr. Syed Waseque Md. Ali, Managing Director, First Security Islami Bank Ltd. were Special Guests. The ceremony was chaired by Prof. Dr. Quazi Abdul Fattah, Vice President of the Academy. Prof. Dr. Mesbahuddin Ahmed, Secretary, BAS announced the names of the winner students during the Prize Distribution Ceremony. The Chief Guest distributed prize money, medals, certificates, and books to the Olympiad winners. About 400 students participated in the National Science Olympiad 2017. Each of the participants of the National Science Olympiad 2017 was awarded with a popular science book and a certificate of participation. The Managing Director, FSIBL declared that the bank would give scholarship to top 5 winners of Tk. 5000 per month for college group for one year and Tk. 2500 per month for winners from school group.



Address by Mr. Nurul Islam Nahid, Hon'ble Minister, Ministry of Education



Participants of the National Science Olympiad 2017

Lists of 30 winner students from both school and college group are mentioned below-

BAS-FSIBL National Science Olympiad 2017

Center-Curzon Hall, Dhaka University

Date: 24 February 2017

Winner list (School group)

Tk. 5000 + Medal + Winner Certificate + Books (2 pieces)

Sl. No.	Students Name	School/College	Reg. No.	Marks out of 100
1	A.H.M. Towfique Mahmood	Monipur Ucchya Bidyaly, Dhaka	S-242	82
2	Imtiaz Tanweer Rahim	Barisal Zilla School, Barisal	S-36	80
3	Nilanjona Majumder Medha	Vidyamayee Govt. Girls High School, Mymensingh	S-196	79
4	Ashraful Islam Paran	Aftab Uddin School & College, Kishoreganj	S-180	77
5	Sherajul Arifin	Satkhira Govt. High School, Khulna	S-98	76.5
6	Gourab Jit Biswas	Barisal Zilla School, Barisal	S-41	76.0
7	Auddithio Nag	S F X Greenherald Int'l School, Dhaka	S-295	75.3
8	Mayesha Aanan	Catt. Public School & College, Mymensingh	S-202	74.5
9	Dipto Archishman Saha	St. Joseph Higher Secondary school, Dhaka	S-299	73.0
10	Md. Wasifur Rahman	A. K. High School, Dhaka	S-241	72.0

Medal + Winner Certificate + Books (2 pieces)

11	Shreya Dey	Rajshahi University School, Rajshahi	S-189	71.0
12	Md. Syeed Uzzaman	Motijheel Govt. Boys High School, Dhaka	S-240	70.5
13	Faria Binta Fulzar (Mahin)	Bogra Govt. Girls High School, Bogra	S-07	70.0
14	Augusto Dip Niloy	Bangladesh Navy School & College, Chittagong	S-205	70.0
15	Md. Moshir Rahman	Motijheel Govt. Boys High School, Dhaka	S-247	69.0
16	Kazi Faiyaz Zaman	Satkira Govt. High School, Khulna	S-99	69.0
17	Md. Hasib	Dhaka Collegiate School, Dhaka	S-260	68.5
18	Nosaiba Hossain Saba	SV Govt. Girls High School, Kishoreganj	S-177	68.0
19	Mahajabin Tabassum	Govt. P. N. Girls High School, Rajshahi	S-188	68.0
20	Md. Isa Bin Maksud Mehan	Bangladesh Navy School & College, Chittagong	S-204	68.0
21	Amiyo Krishnamurti Saha	ACED School, Savar, Dhaka	S-278	67.6
22	Mubin	Sristy Academic School, Tangail	S-75	67.5
23	Muhammad Waleed	Darul Uloom Alia Madrasah (Day Shift), Chittagong	S-213	67.0
24	Ayman Wadud	St. Joseph Higher Secondary school, Dhaka	S-291	66.0
25	SM Mehedi Hasan	SM Model Govt. High School, Gopalganj	S-16	65.5

Winner Certificate + Books (2 pieces)

26	Humaira Atiah	Bogra Govt. Girls High School, Bogra	S-04	65.5
27	Md. Anisur Rahman	Rani Bilshmoni Govt. Boys High School, Gazipur	S-24	65.5
28	Tanvir Khan	Dinajpur Zilla School, Dinajpur	S-232	65.5
29	Md. Razibul Hasan	Bepza Public School & College, Savar, Dhaka	S-275	65.0
30	Alvee Rahman	Motijheel Govt. Boys High School, Dhaka	S-248	65.0

BAS-FSIBL National Science Olympiad 2017

Center-Curzon Hall, Dhaka University

Date: 24 February 2017

Winner list (College group)

Tk. 5000 + Medal + Winner Certificate + Books (2 pieces)

Sl. No.	Students Name	School/College	Reg. no.	Marks out of 100
1.	Md. Rafiqul Islam Rafi	Govt. Ananda Mohon College, Mymensingh	C-187	77.5
2.	Rezwanul Islam	Notre Dame College, Dhaka	C-223	77.0
3.	Arani Ghosh	Govt. Gurudayal College, Kishoreganj	C-164	76.0
4.	Wahiduzzaman	Shaheed Syed Nazrul Islam College, Mymensingh	C-190	73.0
5.	Toufiqu Noor Farid	Govt. Ananda Mohon College, Mymensingh	C-188	71.0
6.	Fardin Ehsan Fahim	Govt. Ananda Mohon College, Mymensingh	C-185	68.0
7.	Md. Iawad Ul Islam	Notre Dame College, Dhaka	C- 224	66.0
8.	Md. Muhil Al Hassan Munna	Kurigram Govt. College, Kurigram	C-162	65.5
9.	Abrar Shariare	Notre Dame College, Dhaka	C-124	65.0
10.	Tabshir Bin Bashir	Cant. Public School and College, Mymensingh	C-191	64.0

Medal + Winner Certificate + Books (2 pieces)

11.	Shourav Omar Himel	St. Joseph Higher Secondary School, Dhaka	C-270	62.5
12.	Tanjeem Azwad Zaman	Notre Dame College, Dhaka	C-226	62.0
13.	Showvik Das	Govt. Ananda Mohon College, Mymensingh	C-184	62.0
14.	Sihat Afnan	Notre Dame College, Dhaka	C-268	61.0
15.	Md. Insaf Ali	Jahangirnagar University School & College, Savar, Dhaka	C-264	60.5
16.	Md. Redwan Hossen	Carmichael College, Rangpur	C-158	60.0
17.	Md. Mahmudunnobe	Rajshahi College, Rajshahi	C-174	59.5
18.	Md. Khalid Saifullah	Isurdi Govt. College, Pabna	C-52	59.0

19.	Barna Ghosh	Rafiqul Islam College, Kishorgonj	C-173	59.0
20.	Anik Islam	Govt. Ananda Mohon College, Mymensingh	C-186	59.0
21.	Arnob Chowdhury	BPATC School & College, Savar, Dhaka	C- 257	59.0
22.	Rhedoy Ghosh	Holiland College, Dinajpur	C-215	56.5
23.	Arefin Jannat Urmi	Holiland College, Dinajpur	C-222	56.5
24.	Gautam Paul	Notre Dame College, Dhaka	C-114	56.0
25.	Mehedi Hasan	Savar Cant. Public School & College, Savar, Dhaka	C-255	56.0

Winner Certificate + Books (2 pieces)

26.	Sudipta Saha	Jahangirnagar University School & College, Savar, Dhaka	C-259	55.5
27.	Md. Mehedi Hasan	Kamarpara School & College, Dhaka	C-072	55.5
28.	Shakhawat Hossain	Dhaka Residential Model College, Dhaka	C-276	55.5
29.	Nusrat Jahan	National Ideal College, Dhaka	C-118	55.5
30.	Sudipta Sarkar	Savar Cant. Public School & College, Savar, Dhaka	C-260	55.0

V. Condolence Meeting and Doa Mahfil for Late Prof. Dr. MR Khan and Late Prof. Dr. M Salimullah, Fellows, BAS, 14 March 2017

A Condolence Meeting and Doa Mahfil to commemorate the death of Late Prof. Dr. MR Khan and Late Prof. Dr. M Salimullah, Fellows of BAS was held on Tuesday, 14 March 2017 at 3:00 pm in the seminar room of the Academy. The meeting was presided by Professor Emeritus Dr. Aminul Islam, President, BAS. Professor Dr. Mesbahuddin Ahmed, Secretary, BAS moderated the meeting.



President & Secretary, BAS and speakers



Fellows and scientists attending condolence meeting

Over 70 scientists including Academy Fellows, scientists & teachers of different universities, foreign scientists of the Intentional University of Business Agriculture and Technology (IUBAT) from Canada were present in the meeting.

The family members of Late Prof. Dr. M Salimullah also attended the meeting. The Chair welcomed the scientists and guests present and requested the Secretary, Professor Ahmed to proceed as per program. Professor Ahmed briefed on successful and eventful life and work of Late National Prof. Dr. MR Khan and Late Prof. Dr. M Salimullah.

Professor Dr. AK Azad Khan, Professor Dr. M Shamsheer Ali, Maj. Gen. Professor Dr. ASM Matiur Rahman, Professor Dr. Md. Ali Asgar, Prof. Dr. Mesbahuddin Ahmad and Mr. Alex Berland, Visiting Professor of IUBAT from A. Berland Inc. Canada spoke on very successful academic and professional profile of both scientists. Mrs. Moon Moon Shabnam Bipasha daughter of Late Prof. Dr. M Salimullah said about loving moments and emotional memories with her father, Late Prof. Dr. M Salimullah.

The Chair addressed the audience and highlighted very successful academic & professional profile of both the scientists and hoped that memorial lecture/award might be introduced by the family members of both the notable scientists with the cooperation of the Academy.

VI. Meeting with Mr. Mark R. Wallace, Agricultural Attaché, US Embassy, New Delhi, 30 January 2017 and Hand over of the BAS-USDA PALS 1st Phase Report

Dr. Tanvir Mahmud Bin Hossain, Observer of the Board of Trustee (BoT), BAS-USDA Endowment and Agricultural Specialist, Foreign Agricultural Service,

US Department of Agriculture (USDA), US Embassy, Bangladesh, arranged a meeting on 30 January 2017 at 1:00 pm at the US Embassy, Dhaka, to hand over the BAS-USDA 1st Phase Report and to update over all status of the BAS-USDA PALS program to Mr. Mark R Wallace, Agricultural Attaché, Bangladesh, Indian and Sri Lanka, US Embassy, New Delhi.

Prof. Emeritus Dr. Aminul Islam, President, Prof. Dr. Quazi Abdul Fattah, Vice President, Prof. Dr. Naiyyum Choudhury, Vice President, Prof. Dr. Mesbahuddin Ahmed, Secretary, BAS and National Emeritus Scientist Dr. Kazi M Badruddoza, Chairman, Technical Advisory Committee (TAC), BAS-USDA program in Agriculture and Life Sciences and Dr. M. A. Mazed, Director, BAS represented the Academy to the meeting with Mr. Mark Wallace, agricultural Attaché, US Embassy, New Delhi.

The meeting was held in the conference room of the US Embassy, Dhaka. On behalf of the Academy delegation, Professor Naiyyum Choudhury presented the aims and a brief account of the activities under BAS-USDA PALS from the beginning through digital slides. Professor Choudhury in conclusion requested USDA to grant US \$ 1.00 million to create an Endowment Fund for Young Scientist Program under the administration of the Academy. Professor Choudhury also proposed that alternatively, a separate fund of US \$ 1.00 million be created from the present principal amount of US \$ 18.86 million of BAS-USDA Endowment.

After presentation Mr. Wallace commented on the report and asked about the methods of selection of the projects and making the grants. Mr. Wallace also wanted to know whether any fund was granted to any project not related to Agricultural and Life Sciences. Dr. Badruddoza replied to this queries that the projects had been selected as per BAS-USDA PALS Operation Manual and the main goal of the program was to enhance food production and to alleviate poverty of the common mass of the people.

After discussion, the delegates led by National Emeritus Scientist Dr. Kazi M Badruddoza, Chairman, Technical Advisory Committee, presented the report of BAS-USDA PALS projects (1st phase) to Mr. Mark Wallace, Agricultural Attaché, US, Embassy, New Delhi. Mr. Attaché received the report and expressed thanks to the Academy delegates.

Mr. Wallace was also presented with the Academy Year Book, Journal and Newsletter and BAS-USDA Endowment Operation Manual.

The meeting also discussed the questions regarding the selection and funding of projects not directly related to Agriculture.

Prof. Naiyyum Choudhury mentioned that all the project proposals were screened and finally selected as per guidelines set in the Operation Manual of BAS-USDA program in Agricultural and Life Sciences. All the selected projects are within the preview of agricultural and Life Sciences. Projects not related directly or indirectly to these fields are not selected. Mr. Mark R. Wallace attentively listened to this reply and did not disagree.

INTERNATIONAL EVENTS

I. 11th International Conference and Workshop on Algorithms and Computation (WALCOM 2017), 29-31 March 2017

The 11th International Conference and Workshops on Algorithms and Computation (WALCOM 2017) was held at National Chiao Tung University in Hsinchu, Taiwan during March 29-31, 2017. Dr. Md. Saidur Rahman, Professor of Dept. of Computer Science and Engineering, BUET and Fellow of Bangladesh Academy of Sciences declared the opening of the conference. Prof. Francis Chin of Hang Seng Management College and University of Hong Kong, Hong Kong, Prof. Peter Eades University of Sydney, Australia and Prof. Etsuji Tomita of The University of Electro-Communications, Japan gave keynote speeches at the conference. Among 83 submissions from 30 countries, 35 papers were accepted for presentation at the conference. Like past WALCOMs, the proceedings of WALCOM 2017 has been published in LNCS series of Springer. Prof. Sheung-Hung Poon, Prof. Md. Saidur Rahman and Prof. Hsu-Chun Yen worked as program co-chairs and Prof. Chun-Cheng Lin and Prof. Sheung-Hung Poon worked as organizing co-chairs. It was declared in WALCOM 2017 that WALCOM 2018 will be held in Bangladesh.



Opening address by Prof. Md. Saidur Rahman, Fellow, BAS at WALCOM 2017



Scientists present at the WALCOM 2017

II. AASSA-SCJ Tokyo Workshop, 01-03 March 2017

Professor Dr. Takashi Onishi, President, Science Council of Japan, has invited Professor Emeritus Dr. Aminul Islam President of the Academy to attend the AASSA-SCJ Tokyo Workshop, 01-03 March 2017 on "Role of Science for Inclusive Society" in Tokyo, Japan.

III. IAP letter regarding formation of IAP for Engineering and Technology

Professor Dr. Volker ter Meulen and Professor Dr. Krishan Lal, IAP Co-chairs wrote a letter to the President, BAS and informed that the original IAP, IAC and IAMP have come together under a single umbrella, the InterAcademy Partnership. At present, the original structures of three founding networks, have been retained and renamed IAP for Science, IAP for Research and IAP for Health, respectively.

The issue of how to reach out to academies of engineering and/or technology has not been yet resolved and discussions are ongoing.

One possibility is to replicate the model of IAP for Health whose membership included dedicated academies of medicine plus academies of science that have strong medical sections.

The purpose of this letter is to reach out to member academies of science and ask two questions:

1) Does the member academy have a strong/ dedicated section for engineering/technology?

2) If so, would there be interest in joining together with other similar academies to form a cohort of academies with a strength in engineering/technology within the InterAcademy Partnership? If this is the case, then in time a fourth section - IAP for Engineering and Technology - as part of our structure may be considered.

The Council discussed the matter and decided to support the IAP initiative in this regard.

IAP will be informed that BAS has a strong Engineering and Technology section with senior engineers and technologists with notable achievement and reputation at home and abroad, namely Engineer Prof. Dr. Jamilur Reza Choudhury, Vice Chancellor, University of Asia Pacific and a veteran structural engineer, Engineer Prof. Dr. Abdul Matin Patwari, former Vice Chancellor, Islamic university of Technology, Organization of Islamic conferences, Engineer Prof. Dr. M Feroze Ahmed, Vice Chancellor, Stamford University Bangladesh and Engineer Prof. Dr. Md. Rezwan Khan, Vice Chancellor, United International University.

The Council endorsed the IAP proposal for consideration of a fourth IAP section i.e. IAP for Engineering and Technology.

Editorial Committee

Professor Dr. Naiyyum Choudhury	Editor
Professor Dr. SM Humayun Kabir	Member
Professor Dr. Mesbahuddin Ahmed	Member

Bangladesh Academy of Sciences

National Museum of Science & Technology Bhaban
Agargaon, Dhaka-1207, Bangladesh
E-mail : office@bas.org.bd, website: www.bas.org.bd
Phone : +88-02-8181406
Fax No. : +88-02-8117049