

Bio-Data



1.	Name	:	MD ABU BAKAR SIDDIQUE SARKER
2.	Father's name	:	Md Rahim Baksho Sarker
3.	Mother's name	:	Mst. Arfa Khatun
4.	Husband's name	:	Not applicable
5.	Gender	:	Male
6.	Designation	:	Principal Scientific Officer
7.	Institution	:	Bangladesh Rice Research Institute
8.	Date of joining in the present position	:	16-04-2014
9.	Date of first joining in service	:	21-11-1994
10.	Date of birth and age	:	17-09-1967

11. Educational qualification:

Degree/Diploma Certificate	Class/Grade/Division	University/Institute/Board	Year
S.S.C	1 st Division	Rajshahi Board	1982
H.S.C	1 st Division	Rajshahi Board	1984
B.Sc.Ag(Hons)	2 nd Class	Bangladesh Agricultural University, Mymensingh	1988 held in 1992-93
M.Sc. Ag (Agronomy)	2 nd Class	Bangladesh Agricultural University, Mymensingh	1997
Ph D (Agronomy)	Defense completed (15-12-2014)	Bangladesh Agricultural University, Mymensingh	2014

Marks obtained in an average

*Grading System : 60% and above = First division/Class
: 45% and above = Second division/Class

12. Field of Specialization:

Agronomic management and rice physiology research on following research fields:

- i. System of Rice Intensification (SRI)
- ii. NPK Briquette
- iii. USG in Rice
- iv. Soil Health Improvement
- v. Crop Establishment methods
- vi. Fertilizer Management for Direct Seeded Rice.
- vii. Fertilizer Management for submurgance
- viii. Slow release fertilizer management
- ix. Yield maximization
- x. Nutrient Management for rice
- xi. Seeds and Seedlings
- xii. Varietal Improvement
- xiii. PRA (Participatory Reflection and Action)
- xiv. Different crop establishment Methods
- xv. Weed management for drought

13. Training:

a. Incountry:

Name of the training	Duration	Training place
Two months of training in theory and practice of 'Rice production. Applied research, Communication and Administration.	03-12-94 to 31-01-95.	BRRI, Bangladesh
Problem -Based Technology Generation for Rainfed Lowland Rice Environments	12-10-97 to 25-10-97	BRRI, Bangladesh
Hybrid Rice Training Course	19-04-98 to 05-05-98	BRRI, Bangladesh
Experimental design and Data analysis	22-10-98 to 31-10-98	BRRI, Rajshahi, Bangladesh
Participatory Reflection and Action	February 07 to 14, 2001	VERC, Anandapur, Savar, Dhaka.
Project Cycle Management	September 09 to 11, 2002	RDA, Bogra, Bangladesh
Planning, Monitoring and Evaluation Framework Development	February 02 to 06, 2003	Sylhet, Bangladesh
Administrative and Financial management training	March 05 to 18, 2012	BARD, Comilla
Research Proposal Preparation and Scientific Report writing	May 11 to 16, 2013	BRAC-CDM

b. Abroad:

Name of the training	Duration	Training place
Strategic Research in Integrated Nutrient Management Course	17-02-97 to 21-03-97	IRRI, Philippines
Rice Research Technique Course	07-2-99 to 13-11-99	Tsukuba International Center (TBIC), JAPAN
Development Integrated Nutrient Management Option for Delivery (DINMOD)	February 11 to March 01, 2002	IRRI, Philippines

14. Experience:

Position	Period		Total (Yr/Mo)
	From	To	
SO	21-11-1994	11-12-2001	7 years 0 months 20 days
SSO	12-12-2001	15-04-2014	12 years 4 months
PSO	16-04-2014	To date	

15. Publication:

List of all publications, photocopies of journal publications, photocopies of first page of other publications are to be attached.

(a)	Scientific journals	No of publication
(i)	Full paper	
	(a) Paper Published in the Reputed International Journal	-
	Principal author	-
	Co-author	-
	(b) Other International and National Journal	
	As Principal author	04
	As Co-author	15
(ii)	Short Communication	-
	As Principal author	-
	As Co-author	-
(b)	Books/ Monographs/ Bulletins	

	(i) Books	-
	As Principal author	-4
	As Co-author	-
	(ii) Monographs	-
	As Principal author	-
	As Co-author	-
	(iii) Bulletins	
	As Principal author	15
	As Co-author	
(c)	<u>Seminar/Workshop/ Symposium Proceedings</u>	
	International / National	
	As Principal author	10
	As Co-author	5

16. Research achievement (as SO to PSO) (List duly endorsed by the Head of Division and Director (Res).
(Certified List of Research achievement in page No.

- (i) No. of technology Developed: 22
- (ii) No. of Research Program:
 - (a) Developed: 40
 - (b) Supervised: 35
 - (b) Executed: 38

17. Outstanding achievement

- i. Reviewed 10 research articles of different Scientific journals
- ii. Published more than 15 popular article in different Daily News paper, popular journal etc
- iii. Attained more than 50 radio talk.
- iv. Supervised one student

(Md. Abu Bakar Siddique Sarker)
Principal Scientific Officer
Agronomy Division,
BRRI, Gazipur

Publication:

i. No. of full paper as the Principal Author: (Attachment no. 04)

(i)

1. **A. B. Siddique Sarker**, N. Kojima, Y. Amano; The effect of nitrogen rates on Japonica and Indica rice under irrigated ecosystem. Bangladesh Journal of Science and Technology. Vol.3, No. 1, January 2001
2. **A. B. S. Sarker**, N. Kojima, S. June-Ichi, M. B. Rahaman and A.K.M.R. Amin; The response of nitrogen absorption of japonica and indica rice variety under irrigated ecosystem. Journal of Agricultural Science and Technology. J. Agric. Sci. Tech. 2 (1). 77-82, June 2001
3. **A. B. S. Sarker**, M. B. Rahman, R. Yasmeen and M. A. Islam. 2007. Effect of crop establishment methods on the performance of Boro rice (*Oryza sativa* L.) in the cooler region under light texture soil condition. The Agriculturists, Vol.5, No. 1 & 2, 2007. pp. 95-100.
4. **A. B. S. Sarker**, M B Rahman, M G Ali, M A Mannan, R Yasmeen and M A Islam. Effect of Crop Establishment Methods on the Performance of T. Aman Rice in North-Western Region of Bangladesh. Bangladesh Rice Journal Vol. 13, No. 1, 2008. pp. 107-112.

14. Publication:

ii. No. of Full paper as Co-author: (Attachment no. 05)

1. M. A. Mazid, **A. B. S. Sarker**, MIU Mollah, M Hasan and L. J. Wade; Rainfed Rice-Chickpea cropping system as affected by different source of N application in the Barind Tract of Bangladesh. Bangladesh Journal of Science and Technology. Vol. 2, No. 2, July 2000, Page no 171 – 178.
2. M. A. Mazid, **A. B. S. Sarker**, M. I. U. Mollah, M. A. Saleque and L. J. Wade; Integrated nutrient management in rainfed rice – chickpea cropping system for increasing productivity of the high barind tract. The Bangladesh Journal of Agricultural Science. Vol.28, No.2.
3. A. J. Mridha, M. A. Mazid, M. B. Rahaman and **A. B. S. Sarker**: Establishment of green manure intercropping with rice and nitrogen rates on yield of rainfed T. Aus – T. Aman cropping patterns. Bangladesh Rice Journal. Vol. VIII. No.
4. M. Bazlur Rahaman, M. A. Mannan, **A. B. S. Sarker**, G. J. U. Ahamed and M. A. Mazid: Study on the biomass production of dhaincha (*Sesbania rostrata*) and its carryover effect on the following rice crop. Bangladesh Rice Journal. Vol. 9, No. 1&2, 1998. pp. 57-60.
5. M. A. Haque, M. M. Husain, **A. B. S. Sarker**, D. E. Jharna and M A Hossain: Effect of Dekamon, Agrister Gold and Agrister Jade on Yield and Yield Component of Rice. The Agriculturists. Vol. 1 No.1, December 2003, Page No. 1-6.
6. R. Yasmeen, H. U Ahmed, MAA Mahbub, J. K. Biswas, and **A. B. S. Sarker**. 2007. Effect of potassium (K) concentration of nutrient uptake and growth of rice genotype under salt stress conditions. International Journal of BioResearch. Vol. 2, No. 4, June 2007. pp. 34-39
7. M B Rahaman, S M E Hossain, **A B S Sarker**, JC Biswas and SA Islam. Growth and yield of direct wet seeded rice as affected by weed management practices. Journal of BioResearch. Vol. 2, No. 4, June 2007. pp. 46-53
8. R. Yasmeen, M. S. Pervin, **A. B. S. Sarker**, H. U Ahmed and M. S. Islam. 2007. Grain production of rice genotypes as mitigated by Calcium under saline conditions. International Journal of Sustainable Agricultural Technology. Vol. 3, Issue 4, August 2007. pp. 10-13

9. R. Yasmeen, J. K. Biswas, M A A Mahbub, Ms Islam and **A. B. S. Sarker**. 2007. Performance of rice genotypes at different salinity levels under net house conditions. *International Journal of BioResearch*. Vol. 3, No. 2, August 2007. pp. 1-8
10. M. A. Islam, M A Saleque, A Z M S Karim, A R M Solaiman and **A. B. S. Sarker**. 2007. Prediction Phosphorus dissopion from acid piedmont soil of Bangladesh. *The Agriculturists*, Vol.5, No. 1 & 2, 2007.
11. M. A. Islam, M R Islam and **A. B. S. Sarker**. 2007. Effect of Phosphorus on Nitrogen uptake of Japonica and Indica rice. *Journal of Agricultural and Rural Development*. Bangladesh Open University, Gazipur -1701. Vol. 6 (1&2), June2008. Pp. 7-12.
12. M G Alli, **A B S Sarker**, M B Rahaman, R E L Naylor and Matthews, 2008, Effect of Genotypes and seed Quality On Low Temperature Tolerance of Rice During Germination. *Bangladesh Rice Journal*. Vol. 13, No. 1, 2008. pp. 15-21.
13. H U Ahmed, M A Ali, **A B S Sarker** and M A Salam 2008. Performance of short duration Aerobic rice genotype after potato harvest as Braus. *International Journal of BioResearch*. Vol. 4, No. 5, May, 2008. pp. 72-75.
14. M B Rahaman, S M A Hossain, J C Biswas, S A Islam, **A B S Sarker** and M Ashiqur Rahaman. Study on the performance of direct wet seeded and transplanted Aman and Boro rice. *Eco-Friendly Agriculture Journal*. Vol. 1, No. 1, August 2008. pp. 18-25
15. M. A. Islam, M R Islam, A B S Sarker, M M Rahaman and M M Rashid. Effect of Phosphorus and yield of Japonica and Indica rice varieties. *Journal of Agricultural Education and Technology*. Vol. 11, No 1&2, December 2008. Pp.79-86.

(ii) Books/ Leaflet/Brochure etc: (Attachment no 6)

1. †gvt Ave eKi wmw İK miKvi, cw̄ ZKv, GmAvi AvB cxwZ†Z avb Drcv`b wbw`wkKv| cwi†ekbvq: **BRAC, POSD, SAFE, Syngenta Bangladesh Ltd., CARE, brri Comilla, BRRI, Barisal.** m †! v"#Zvq: **PETRRRA, cKvkKv%t &vb' ()) * |**
2. †gv+ Ave eKi wmw İK miKvi, cw̄ Kv ÒGm Avi AvB cxwZ†Z avb Pvl - `wi` Kl†Ki avb Drcv`b ewxi GK bZb m! †ebv#, m\$†%w&Zv' (c)†, cKv, Kv-, †m†. **! D 21123**
3. **Md. Abu Bakar Siddique Sarker**, Principal Investigator, SRI, Sp. No. 34, 02, PETRRA Sub-Project. Pictorial of "Different steps of rice cultivation through System of rice Intensification (SRI) Method" Implemented by: Agronomy Division, BRRI, Gazipur & Uttaran, Tala, Satkira, Supported by: PETRRA.
4. **Md. Abu Bakar Siddique Sarker**, Principal Investigator, SRI, Sp. No. 34, 02 PETRRA Sub-Project. Leaflet "SYSTEM OF RICE INTENSIFICATION (SRI) – A NEW RICE PRODUCTION METHOD IN THE SOUTH-WEST REGION OF BANGLADESH". Supported by: PETRRA

vi. No. of papers published in the proceedings of the Seminar/Symposium/Workshop:

As Principal Author: (Attachment no 7)

1. **A B S Sarker** and N Islam. An investigation into critical factor of System of Rice Intensification (SRI) for maximizing the Boro Rice Yield in Bangladesh. International symposium on “System Intensification Towards Food & Environmental Security” February 24-27, 2011. FTC (Lake Hall), Kalyani, Bidhan Chandra Krishi Viswavidyalaya (BCKV), India.
2. **A B S Sarker** and M B Rahaman. Comparison of SRI with other method of crop establishment in Boro and T Aman season in the northwestern region of Bangladesh. Second International Symposium on System of Rice Intensification (SRI) in In India – Progress and prospects. 03-05 October, 2007. Agartala, Tripura, India.
3. **A B S Sarker**. Participatory research on System of Rice Intensification (SRI) method and farmer’s perception on SRI in the South west region of Bangladesh. Proceedings Technology Development Workshop. PETRRA-IRRI and BRRI. BRRI Auditorium, Gazipur, May 23-24, 2004.
4. **A B S Sarker**, M M Hussain, G J U Ahamed & A A Akter . System of Rice Intensification (SRI) – A new rice production methods for resource poor farmer in the south – West region of Bangladesh. Proceedings of National Workshop on System of Rice Intensification (SRI) at IDB Bhaban, Dhaka, 24 December 2003.
5. **Abu Bakar Siddique Sarker**. Participatory research on the System of Rice Intensification (SRI) methods and farmer’s perception on SRI in the southwest region of Bangladesh. Proceedings of Technology Development Workshop. Organized by: PETRRA-IRRI and BRRI, BRRI auditorium, Gazipur, 23 – 24 may, 2004
6. Md. Abu Bakar Siddique Sarker. Evaluation Report on “Validation and Delivery of the System of Rice Intensification (SRI) methods for increased rice production of the resource poor farmers of the south – West region of Bangladesh. (SRI Sp No 34 02 PETRRA)”. Published by Poverty Elimination Through Rice Research Assistance (PETRRA) - IRRI, Dhaka, Bangladesh, March, 2004. Funded by: DFID (UK).
7. **Md. Abu Bakar Siddique Sarker**, Md. Rafiqul Islam, Miss. Sharifa Sultana Dipti, Enamul Huda and Dilruba Begum. Stakeholder Analysis for Chuadanga District, MAY 21-26, 2000. publish by Poverty Elimination through Rice Research Assistance (PETRRA) and International Rice Research Institute.
8. **A. B. S. Sarker**, N Islam, M A Samad. An investegating to the critical factors of system of rice intensification for maximazing the Boro rice yield. Proceodings of the experience-Sharing National workshop: Fifth National SRI workshop, VIP conferance room BRRI, Gazipur. April 28, 2010. Pp 7-8 &48-52.
9. **A B S Sarker**, Nitrogen Response of a Japonica and an Indica rice varieties under irrigated system. Report on experiments in Rice Research Techniquecourse. Volume 3, Page 1-20. November, 1999.
10. **A B S Sarker**. Completion report on validation and delvary of rice intensification (SRI) methods for increasedrice productionof the resource poor farmers of South west region of Bangladesh (SR Sp. 34, 02 PETRRA) PETRRA, IRRI Dhaka office, Bangladesh. March 2004.

vi. No. of papers published in the proceedings of the Seminar/Symposium/Workshop:

As Co- Author: (Attachment no 8)

01. M. A. Mazid, L. J. Wade, M. A. Saleque, **A. B. S. Sarker**, M.I. U. Mollah, A. B. Olea, S. T. Amarante, and C. G. McLaren. 1998. Nutrient management in rainfed lowland rice for the High Barind Tract of Bangladesh. In J. K. Ladha, L. J. Wade, A. Dobermann, W. Reichardt, G.J.D.Kirk and C. Piggan (editors) Advances in Nutrient Management Research. Research Proceedings of the International Workshop on Nutrient Research in Rainfed Lowlands. 12-15 Oct. 1998. Ubon Ratchathani. Thailand.
02. J C Biswas, A B S Sarker, M A Saleque and M G J U Ahmed. Agronomic performance of some newly released BRRI Boro varieties at farmers fields. Proceedings of the First Annual Workshop of ICM Sub-project in Northern region of Bangladesh. June 2003, RDRS, Rangpur.
03. N Islam, M A Rahaman, S M A Hossain, M E Baksh, S Tasnin Khan & A B S Sarker. Policy Option for Quality Seed Production and Preservation of Cereal Crops at Farmer's level for improvement of food security. Workshop on Research in Support of Food Security Policies: Availability, Access and Nutrition Issues. July 12-13, 2010, Hotel Sheraton, Dhaka.
04. S. M. Rezaul Karim, Md. Nazrul Islam, Helal Uddin Ahamed, Md. Islam Uddin Mollah, Md. Ansar Ali, Md. Ziahidul Alam, Md. Atiqul Islam, **Md. Abu Bakar Siddique Sarker**. Site Characterization Report and Research Plan for Dassanarayanpur Village, Kapasia, Gazipur, Bangladesh. Published by IRRI.
05. Dr. Abdus Satter, Mr Akramul Haque, **Md. Abu Bakar Siddique Sarker**, Mr. A K M saiful Islam & Ms. Shaila Arifa Nabi. Report on "Mobility for Income Generating Activity (IGA) & Impact of Micro credit at Khatrapara Village at Saver. In cooperation with VERC & PPS-BD. Anandonagor, Saver. February 11 – 12, 2001.

vi. Seminar paper presentated at:

1. Seminar on "Proposal of Experiment's Programme" on March 8, 1999 at Tsukuba International Center (TBIC), Japan.
2. Seminar on "Overview of Scientific Paper" on March 23, 1999 at Tsukuba International Center (TBIC), Japan.
3. Seminar on "Rice Cultivation Methodology and Land Use of Bangladesh" on March 23, 1999 at Tsukuba International Center (TBIC), Japan.
4. Seminar on "Nitrogen response of a japonica and an indica Rice Variety under Irrigated System" on October 19, 1999 at Tsukuba International Center (TBIC), Japan.
5. Workshop paper on "Report of stake holder analysis of draught prone irrigated ecosystem of Chuadanga district" on September 11, 2000 at BRRI auditorium, BRRI, Gazipur.
6. Seminar on "SYSTEM OF RICE INTENSIFICATION (SRI)" A NEW CONCEPT FOR RICE PRODUCTION AND IT'S PROSPECT IN BANGLADESH. Paper presented at BRAC center, Dhaka, Bangladesh on 14 January, 2002.
7. Seminar on "SYSTEM OF RICE INTENSIFICATION (SRI) – A NEW RICE PRODUCTION METHOD: VERIFICATION AND SOME RESEARCH BASED INFORMATION ON BANGLADESH ASPECT". Paper presented at BRRI Auditorium, December, 2002.
8. SYSTEM OF RICE INTENSIFICATION (SRI) – A NEW RICE PRODUCTION METHOD FOR RESOURCH POOR FARMER IN THE SOUTH-WEST REGION OF BANGLADESH. Paper present at the SRI National Workshop at IDB Bhubon at Sher e Bangla Nogor, Dhaka on December 24, 2003.
9. PARTICIPATORY RESEARCH ON THE SYSTEM OF RICE INTENSIFICATION (SRI) METHOD AND FARMER'S PERCEPTION ON SRI IN THE SOUTH-WEST REGION OF BANGLADESH. Paper present at the "Technology Development Workshop" at BRRI, Gazipur on May 23, 2004.
10. Comparison of traditional and modern methods of crop establishment for Boro and T. Aman rice at the Tista Flood Plain Alluvial Soil. Paper presented at BRRI Auditorium, May 24, 2007.

19 Other activities:

- 4. Gm Avi AvB c xwZ†Z avb Pvl - ev5- v†` , avb Drcv` b ewxi GK bZb m! †ebv, 67vK evZ8, A†9vei - w: †m! /i 2144 B53
- 2. †6v; Ave eKi wmw<K miKvi, Òeb7v cweZ AbP†- bwe (ivcv Av6b av†bi Pvl c xwZ#, cw>K Kwl wece, cvZv 44, 24 Av&? @4A (m†. 6ei, 21123
- 2. †6v; Ave eKi wmw<K miKvi, ÒAv6b Pviv †ivcb cieZB cwIP%8 #, Kwl KCv weDv&, E`wbK %&vFGi, (m†. 6ei 44, 21123
- H. †6v; Ave eKi wmw<K miKvi, Ò†ev†iv av†bi eBl Z-v JZwi#, Kwl KCv weDv&, E`wbK %&vFi, A†9vei 44, 21123
- A. †6v; Ave eKi wmw<K miKvi, ÒAv6b av†bi Av&vKv `6b#, Kwl KCv weDv&, E`wbK %&vFi, I vb' wwi L, 211H3
- M. †6v; Ave eKi wmw<K miKvi, ÒGm Avi AvB c xwZ†Z avb Pvl#, Kwl KCv weDv&, E`wbK %&vFi, I vb' wwi 4A, 211H3
- N. †6v; Ave eKi wmw<K miKvi, Ò†ev†iv av†bi eBl m5&\$ O m5i>O#, Kwl KCv weDv&, E`wbK %&vFi, †6 21, 211H3
- L. †6v; Ave eKi wmw<K miKvi, wmwP 6 Ae ivBm Bb†) bwmwQwK, bRGM.Avi.AvBS c xwZ†Z avb Pvl, 2NT14T2142B5, mU7v NV1A w6wb), ev5- v†` , (eZvi, I vZB' (eZvi c† vmb Deb, Av&vi&wO, XvKv-421N3
- Y. †6v; Ave eKi wmw<K miKvi, AvD, av†bi eBl m5&\$ O m5i>O, LTMT42B5, mU7v MV1A w6V, ev5- v†` , (eZvi, I vZB' (eZvi c† vmb Deb, Av&vi&wO, XvKv-421N3
- 41. †6v; Ave eKi wmw<K miKvi, †ev†iv av†bi Pviv (ivcb O cwIP%8, 12T44T42, MV1A w6V, ev5- v†` , (eZvi, I vZB' (eZvi c† vmb Deb, Av&vi&wO, XvKv-421N3
- 44. †6v; Ave eKi wmw<K miKvi, (ev†iv av†bi mvi e7e` 1cbv, 2HT44T42R(iK: 8 21T44T42S, MV1A w6V, ev5- v†` , (eZvi, I vZB' (eZvi c† vmb Deb, Av&vi&wO, XvKv-421N3
- 42. †6v; Ave eKi wmw<K miKvi, eb7v cweZ A[†- Av6b av†bi Pvl c xwZ, 4HT1LT42 B5, MV1A w6V, ev5- v†` , (eZvi, I vZB' (eZvi c† vmb Deb, Av&vi&wO, XvKv-421N3
- 42. †6v; Ave eKi wmw<K miKvi, Av6b av†bi eBl Z-v JZwi, 4YTAT42B5, mU7v MV1A w6V , ev5- v†` , (eZvi, I vZB' (eZvi c† vmb Deb, Av&vi&wO, XvKv-421N3
- 4H. †6v; Ave eKi wmw<K miKvi, Av6b av†bi mvi e7e` 1cbv, 2MTNT42B5, mU7v MV1A w6V , ev5- v†` , (eZvi, I vZB' (eZvi c† vmb Deb, Av&vi&wO, XvKv-421N3
- 4A. †6v; Ave eKi wmw<K miKvi, eb7v cieZB bveB (ivcv Av6b av†bi Pvl, 12TLT42B5 , mU7v MV1A w6V , ev5- v†` , (eZvi, I vZB' (eZvi c† vmb Deb, Av&vi&wO, XvKv-421N3
- 4M. †6v; Ave eKi wmw<K miKvi, Av6b av†bi eBl m5&\$, 1LT41T42 B5, mU7v MV1A w6V , ev5- v†` , (eZvi, I vZB' (eZvi c† vmb Deb, Av&vi&wO, XvKv-421N3
- 4N. †6v; Ave eKi wmw<K miKvi, †ev†iv av†bi (>†Zi wewDbl cwIP%8 O Av†- vPbv, 42T12T1A B5 Rmivmwis, mU7v MV1A w6V (C†K MV2A w6VGi 6†a7, (iw: O ev5- v†` , , (eZvi Deb, i5ci (K)` , i5ci3
- 4L. †6v; Ave eKi wmw<K miKvi, †ivcv Av6†bi Pviv (ivcb c xwZ O cwIP%v O Av†- vPbv, 1YT1NT1A B5, mU7v MV1A w6V (C†K MV2A w6VGi 6†a7, (iw: O ev5- v†` , , (eZvi Deb, i5ci (K)` , i5ci3

4Y. ‡6v; Ave eKi wmw<K miKvi, ‡ivcv Av6b av‡bi eBI Z-v JZiB O Pviv Drcv` b
O Av‡-vPbv, 14T1MT1H B5 RmivmwIS, mU7v MV1A w6V (C‡K MV2Aw6VG i 6‡a7,
(iw: O ev5-v‡`, , (eZvi Deb, i5ci (K)` , i5ci3

(Md. Abu Bakar Siddique Sarker)
Principal Scientific Officer
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