

ডিসিপ্লিনওয়ারী ট্রায়ালসমূহের প্রতিবেদন (রাজস্ব)

Sl. No.	Discipline	Trial Name	Objectives	Investigators
1	Breeding	Preliminary yield trial of upland cotton Identification number: CDB-REV-25/26-03	To test the yield and quality performance of some newly promising lines through comparing their agronomic and ginning characters	PI: 1. Dr. M M Abed Ali (PSO) CI: 1. M J I Talukdar (CA) 2. Abdul Wahab (CA) and 3. Zafor Ali (DD)
2		Advance yield trial of Upland Cotton Identification number: CDB-REV-23/24-05	To compare the agronomic, ginning and quality performance of some advanced lines with superior existing cultivars that currently being multiplied for release to farmers	PI: 1. Dr. M M Abed Ali (PSO) CI: 1. M J I Talukdar (CI) 2. Abdul Wahab and 3. Zafor Ali (DD)
3.	Soil Science	Evaluation of Cotton Varieties under high density planting system with different nutrient levels. Identification number: CDB-REV-25/26-12	1. To assess the growth and yield performance of three cotton varieties under three RDF. 2. To identify the suitable variety and fertilizer combination for maximum yield under high density planting system 3. Interaction effects between fertilizer dose and cotton variety on high density planting system.	PI: Dr. Md. Tasdiqur Rahman, IPS CI: 1. Milia Bente Momtaz, SPS, 2. Abdul Wahab (CA) and 3. Zafor Ali (DD) 4. Dr. Md. Zobayer Islam Talukdar, CA
4.		Determination of Suitable Fertilizer Dose and plant spacing on CDB tula-21	To identify suitable Fertilizer Dose and plant spacing on CDB tula-21	PI: Rajib Kumar De, SO CI: 1. Abdul Wahab (CA) 2. Milia Bente Momtaz, SPS 3. Shahana Yesmin. GO

5.		Evaluation of some bio-rational management practices against TSSM of Cotton. Identification number: CDB-REV-25/26-14	1. To identify the suitable fertilizer dose and plant spacing on CDB Tula-21.	PI: 1. H M Syfullah Azad, PSO CI: 1.Mong Sanu Marma, SSO 2.Dr. Md. Zobayer Islam Talukdar, CA 3.Milia Bente Momtaz,SPS 4. Shahana Yesmin. GO
6.	Entomology	Screening of Jassid tolerant cotton varieties under field conditions Identification number: CDB-REV-25/26-15	To identify cotton varieties those show resistance or tolerance to jassid infestation under natural field conditions. To evaluate varietal differences in jassid infestation and plant damage severity. To contribute to the development of jassid tolerant cotton varieties for integrated pest management.	PI: 1.Abdul Wahab (CA) CI: 1.Zafor Ali (DD) 2.Dr. Md. Zobayer Islam Talukdar, CA 3.Md. Ruhul Amin. Professor, GAU 4.Milia Bente Momtaz, SPS Shahana Yesmin, GO
7.		Integrated Evaluation of bio-pesticides and cotton varieties for eco-friendly pest management. Identification number: CDB-REV-25/26-16	1. To assess the effectiveness of bio-pesticides against major insect pests of cotton. 2. To compare the pest resistance and yield response of cotton varieties under different bio-pesticides.	PI: 1.Milia Bente Momtaz, SPS CI: 2.Abdul Wahab (CA)

ডিসিপ্লিনওয়ারী ট্রায়ালসমূহের প্রতিবেদন (ডিসিআরটিটিপি)

Sl. No.	Discipline	Trial Name	Objectives	Investigators
01.	BREEDING	Generation Advanced of Single, Double and 8-Way Cross Hybrids for Earliness and Fiber Yield in Cotton. Identification number: CDB-DCRIT-25/26-23	1. To advanced generations of single cross (F ₃ to F ₄ and F ₄ to F ₅) 2. To advanced generations of double (F ₃ to F ₄) 3. To advanced generations of 8-way cross (F ₃ to F ₄) hybrids for the development of early cotton genotypes with high fiber yield.	PI: AKM Aminul Islam CI: Dr. Khalequzzaman, SSO Dr. AKM Harun-Or-Rashid, PD Dr. Jubair Islam Talukdar, CA
02.	SOIL SCIENCE	Evaluating the effect of plant density and predicting yield in cotton using UAV-based multispectral imagery Identification number: CDB-DCRIT-25/26-32	1. To evaluate the effect of plant density on yield and yield contributing characteristics of cotton. 2. To develop yield predicting models of Cotton using UAV based multispectral imagery and machine learning algorithm.	PI: Md. Shahinul Islam, GAU CI: Dr. Md. Farhadur Rahman, GAU Dr. AKM Harun-Or-Rashid, PD
03.		Assessing the impact of irrigation on yield and predicting yield in cotton using UAV-based multispectral imagery Identification number: CDB-DCRIT-25/26-33	1. To evaluate the effect of irrigation on yield and yield contributing characteristics of cotton. 2. To develop yield predicting models of Cotton using UAV based multispectral imagery and machine learning algorithm.	PI: Md. Shahinul Islam, GAU CI: Dr. Md. Farhadur Rahman, GAU Dr. AKM Harun-Or-Rashid, PD

04.		Evaluating the performance of Variety and predicting yield in cotton using UAV-based multispectral imagery Identification number: CDB-DCRIT-25/26-34	1. To evaluate the performance of variety on yield and yield contributing characteristics of cotton. 2. To develop yield predicting models of Cotton using UAV based multispectral imagery and machine learning algorithm.	PI: Md. Shahinul Islam, GAU CI: Dr. Md. Farhadur Rahman, GAU Dr. AKM Harun-Or-Rashid, PD
05.	ENTOMOLOGY	Evaluation of different integrated pest management modules against Jassid in cotton field CDB-DCRIT-25/26-34	1. To evaluate the efficacy of different IPM modules for cotton jassid 2. To select the most suitable IPM modules for the management of cotton Jassids	PI: Md. Salauddin, PhD fellow CI: Prof. Dr. Masum Ahmad, BAU

ডিসিপ্লিনওয়ারী ট্রায়ালসমূহের প্রতিবেদন (পার্টনার প্রোগ্রাম)

SI. No.	Discipline	Trial Name	Objectives	Investigators
01.	AGRONOMY	Evaluation of Mutant genotypes Identification number: CDB-PARTNER-25/26-01	To evaluate the performance of mutant genotypes in M6 generation	PI:1. Md. Abdul Wahab, CA CI: 1.Zafor Ali (DD) 2. Dr. M. M. Abed Ali (CI) 3.Dr. Khalequzzaman, SSO 4.Dr. Md. Zobayer Islam Talukdar, CA 5.Milia Bente Momtaz, SPS 6.Shahana Yesmin, GO 7.Rajib Kumar De, SO
02.		Effect of high density planting system on cotton yield and fiber quality. Identification number: CDB-PARTNER-25/26-02	To find out suitable plant density of HDPS in Bangladesh.	PI:1. Gazi Md. Farhad Hossain, SNS CI: 1. Zafor Ali (DD) 2. Md. Abdul Wahab (CA) 3. Dr. Md. Zobayer Islam Talukdar, CA 4. Milia Bente Momtaz, SPS 5. Dr Shahana Yesmin, GO 6. Rajib Kumar De, SO
03.		Effect of plant population on cotton yield and fiber quality under pair row system. Identification number: CDB-PARTNER-25/26-03	To find out effect of plant density under pair row system on cotton yield and fiber quality.	PI:1. Gazi Md. Farhad Hossain, SNS CI: 1. Zafor Ali (DD) 2. Md. Abdul Wahab (CA) 3. Dr. Md. Zobayer Islam Talukdar, CA 4. Dr Shahana Yesmin, GO 5. Rajib Kumar De, SO

04.	AGRONOMY	Productivity and economics of cotton based cropping pattern Identification number: CDB-PARTNER-25/26-03	To develop suitable cotton based cropping pattern for increasing productivity and profitability of the farmers	PI: Milia Bente Momtaz, SPS CI: 1. Zafor Ali (DD) 2. Md. Abdul Wahab (CA) 3. Dr. Md. Zobayer Islam Talukdar, CA 4. Shahana Yesmin, GO 5. Rajib Kumar De, SO
05.		Exogenous silicon and silicon acid applications enhance growth, yield and physiological response of cotton under rainfed condition Identification number: CDB-PARTNER-25/26-07	1.To assess the individual and combined effects of Si and SA on growth, yield and physiological traits of cotton under rainfed condition	PI: Dr. Khalequzzaman, SSO . Dr. Md. Zubair Islam Talukdar, CA 3. Md. Abdul Wahab (CA) 4. Shahana Yesmin, GO 5. Rajib Kumar De, SO
06.		Exploring Growth behavior and yield of cotton (CDB Tula M1) as influenced by mepiquat chloride at different doses Identification number: CDB-PARTNER-25/26-08	1.To determine the different doses of Mepiquat Chloride on growth and yield 2. To find out optimum dose of Mepiquat Chloride on cotton.	PI: Shahana Yesmin, GO CI: 1.Rajib Kumar De, SO 2. ANM Johir Uddin, CDO.
07.	SOIL SCIENCE	Effect of fertilizer application at first flowering to improve lint yield and dry matter accumulation in Cotton. Identification number: CDB-PARTNER-25/26-03	To screening for the optimal stage for fertilization by evaluating cotton biomass accumulation at different stages.	PI: Dr. Md. Jahangir Alam, CCDO Co-PI: 1. Zafor Ali (DD) 2. Dr. Md. Zubair Islam Talukdar, CA 3. Md. Abdul Wahab, CA 4. Milia Bente Momtaz, SPS 5. Shahana Yesmin, GO 6. Rajib Kumar De, SO
08.		Effect of Combined application of Bio-char and chemical fertilizer on cotton growth, yield and fiber quality Identification number: CDB-PARTNER-25/26-10	To assess the individual and combined effect of Bio-char and chemical fertilizer on cotton growth, yield and fiber quality	PI: Md. Abdul Wahab, CA CI: Milia Bente Momtaz, SPS

			To identify optimal application rates for bio-char and chemical fertilizers to maximize cotton productivity and fiber	
09.	ENTOMOLOGY	Effect of some bio-pesticides against cotton jassids Identification number: CDB-PARTNER-25/26-9	To understand efficacy of bio-pesticides against cotton jassid	PI: Milia Bente Momtaz, SPS CI: Md. Abdul Wahab, CA Dr. Md. Zubair Islam Talukdar, CA Rajib Kumar De, SO Shahana Yesmin, GO