PDS (Personal Data Sheet) Format

1.	Name	:	Kbd. Dr. Md. Younus Ali
2.	Father's name	:	Md. Zillar Rahman P.K.
3.	Mother's name	:	Mst. Abaya Begum
4.	Spouse name	:	Mst. Jannatul Ferdausi
5.	Gender	:	Male
6.	Date of joining in present position	:	05.12.2022
7.	Designation (In present)	:	Principal Scientific Officer (PSO)
8.	Present Address	:	Fibre Quality Improvement Division, BJRI, Dhaka-1207
9.	Permanent Address	:	Vill Tollatola, Post Kolakopa, Upazila- Gabtoli,
			Zilla- Bogura
10.	Date of birth	:	25 October, 1976

11. Age (as on 01-01-2023)

12. Education Qualification

Degree/Diploma/	Board/University	Year of Passing	Division/Class/
Certificate			Grade
Doctor of Philosophy (Ph.D)	Bangladesh Agricultural	2022	Awarded
	University, Mymensingh		
M. S in Agricultural	Bangladesh Agricultural	2003	1 st Class
Chemistry	University, Mymensingh		
B. Sc. Ag	Bangladesh Agricultural	1998	2 nd Class
	University, Mymensingh	(Held in 2001)	
H. S. C	Rajshahi	1993	1 st Division
S. S. C	Rajshahi	1991	1 st Division

:

: 46 years 2 months 28 days

11. Field of Specialization: Soil Science (Water and Soil Microbiology and Jute Retting)

12. Training

(a) In Country

Sl.	Organization	Year	Durat	ion	Name of programme	
No.	Organization		Months	Days	Name of programme	
1	Department of Soil Science,	2017	0	01	Operation and Maintenance of	
	Bangladesh Agricultural				Sophisticated Equipment	
	University, Mymensingh					
2	National Agricultural	2015	0	04	E-agriculture and it's Development	
	Training Academy, Gazipur				Initiatives	
3	Bangladesh agricultural	2014	0	03	Use of Fertilizer Recommendation	
	Research Council, Dhaka				Guide-2012	
4	BARC, Dhaka	2013	0	02	Agro forestry Technologies developed	
					through SPGR project	
5	BARC, Dhaka	2013	0	02	Agro forestry practices in Bangladesh	
6	Bangladesh agricultural	2012	0	06	On-Farm Research Methodology	
	Research Institute, Gazipur					
7	Bangladesh Jute Research	2012	0	04	Technical Report Writing and Editing	
	Institute, Dhaka, Bangladesh				Course	

Sl.	Organization	Year	Duration		Nome of programme
No.	Organization		Months	Days	Name of programme
8	Bangladesh agricultural	2012	0	03	Use and Maintenance of Modern Lab
	Research Institute,				Equipments for NARS Scientists
	Joydebpur, Gazipur				
10	Bangladesh Academy for	2006	04	00	Foundation Training Course
	Rural Development, Cotbari,				
	Comilla				
11	BRTC Training Institute,	2006	0	26	Basic Driving Training in L.T.V
	Narayangonj				
12	Bangladesh Jute Research	2006	01	00	Advanced Computer Training
	Institute, Dhaka, Bangladesh				Program
13	Bangladesh Jute Research	2005	0	06	Orientation-cum-Technology Transfer
	Institute, Dhaka, Bangladesh				Training Workshop

	(b) Abroad					
Sl.	Organization	Year	Duration		Name of programme	
No.	Organization		Mons. Days		Name of programme	

13. Experience

Position		Period				
	From	То	Total (Years/Months)			
Scientific Officer (SO)	01-11-2004	28-3-2012	7 years 4 months			
Senior Scientific Officer (SSO) (CC)	29-3-2012	23-11-2015	3 years 07 months			
Senior Scientific Officer (SSO)	24-11-2015	05.12.2022	7 years 00 months 12 days			
Principal Scientific Officer (PSO)	05-12.2022	Present				
Associate Scientist of M4C Project on	March 2013	October 2015	2 years 8 months			
jute production in Charland areas of						
Bangladesh						

14. Publication

(A)a) Full scientific paper as principal author, b) Full scientific paper as Co-author

(B) Popular Article/Monograph/Bulletin

(C) List of seminar Papers/Workshop Proceedings (Presented/Published)

(A)	Scientific journals	No. of publication
	(i) Full paper	33
	(a) Paper Revised Reported International Journal	07
	Principal author	-
	Co-author (4-10)	07
	(b) Other International & National Journal	26
	Principal Author (1-3)	03
	Co-author (11-33)	23
	Short Communication	0
	Principal Author	
	Co-author	

(B)	Books/ Monographs/ Bulletins/ News letter	
	(i) Books	04
	Principal Author	01
	Co-author	03
	(ii) Bulletins/Report in The Guardian, July 2014	01
	Leaflet	04
	Booklet	02
	Principal Author	
	Co-author	07
	(iii) News letter	03
	Principal Author	01
	Co-author	02
(C)	Seminar/ Workshop/ Symposium Proceedings	
	(i) National seminar/workshop	11
	Principal Author	
	Co-author	11
	(ii) International Workshop/ Seminar	01
	Principal Author	
	Co-author	01

International Workshop 01: The Global Institute for Food Security (GIFS), Saskatchewan University, Canada – BARC Technology Centre Workshop, held on 6 February 2020 at Bangladesh Agricultural Research Council, Farmgate, Dhaka-1207, Bangladesh.

Participants were: Scientists of NARS institutes, University teachers, Personnel of DAE, BADC, BWMRI, CDB, Hortex Foundation, KGF, IRRI, CIMMYT, FAO and Canada High Commission

a) Full scientific paper as principal author

- M. Younus Ali, T. Ahmed, M.D. Hossain and M.S.Ali. 2008. Nutrient status in the soils of some Agro-ecological zones of Bangladesh. J. Banglsdesh Soc. Agric. Sci. Technol., 5(1&2): 193-199.
- 2. M. Younus Ali, M.R. Jamal, T.S. Aqter, S.H. Bhuiyan and G.A. Fakir. 2009. Effect of plant extracts on germination and control of seed borne fungal pathogens of jute. *J. Subtrop. Agric. Res. Dev.* 7(5): 722-728.
- 3. **M. Younus Ali,** Md. Babul Hossain and Md. Zahid Al Rafiq. 2020. Effect of molybdenum on seed yield and yield contributing characters of tossa jute in late season. Int. J. Sustain. Agril. Tech. 16(7): 01-05.
- b) Full scientific paper as Co-author, reported in International Journal: 7 (4-11)
- 4. Tanjila Alam Prosun, **Md. Younus Ali**, Most. Monira Yesmin, Markus S Brun, Md. Badiuzzaman khan and M. Harun-Or Rashid. 2020. Identification and Evaluation of Arsenic Tolerant Bacteria for Arsenic Mitigation in Contaminated Soil. J. Bacteriol Mycol. 7 (8): 01-07. (IF: 2.1)
- 5. Arju Miah, Nihar Ranjan Saha, Md. Jahangir Alam, Md. **Younus Ali** and Amit Kumar Basunia. 2020. Characterization of deshi jute (*Corchorus capsularis*) germplasm collected from different sources. *Acta Scientific Agriculture*. 4(7): 173-180.
- Arju Miah, Nihar Ranjan Saha, AKM Shahadat Hossain1, Md Younus Ali and Amit Kumar Basunia. 2020. Genetic variability assessment of *Tossa* jute (*Corchorus olitorius* L.) genotypes using morphoagronomic traits. *Acta Scientific Agriculture*. 4(7): 132-138.

- Arju Miah, Nihar Ranjan Saha, Amit Kumar Basunia, AKM Shahadat Hossain and Md Younus Ali. 2020. Advanced yield trial of early seeding, higher yield and low temperature tolerant breeding lines of white jute. *Acta Scientific Agriculture*. 4(7): 167-172.
- 8. Arju Miah, A. K. M. Shahadat Hossain, Nihar Ranjan Saha, **Md. Younus Ali**, Md. Jahangir Alam, Sayma Farabi. 2020. Determining Genetic Diversity of Deshi Jute (*Corchorus capsularis*) for the Improvement of Fibre Yield and Associated Traits. Intl J Sci Agric. Vol.4: 66-71
- Arju Miah, A. K. M. Shahadat Hossain, Nihar Ranjan Saha, Md. Younus Ali, Md. Jahangir Alam, Md. Hasanuzzaman. 2020. An Anatomical Screening of White Jute Accessions for Fibre Content. Intl J Sci Agric.Vol. 4: 72-76.
- Arju Miah, A. K. M. Shahadat Hossain, Nihar Ranjan Saha, Md. S. M. Shahriar Parvej Md. Younus Ali, Sayma Farabi, Amit Kumar Basunia. 2020. Assessment of Genetic Variability in Different Kenaf (*Hibiscus cannabinus*) Germplasm Using Morpho-Agronomic Traits. Intl. J.Innov.Agric. Vol.3: 05-12.
- c) Full scientific paper as Co-author, reported in National and International Journal: 23 (11-33)
- M. Mahabub Ali, M. Abdur Rahim, Selina Akhter, M. Younus Ali and Tahmina. 2013. Identification of cellulosic microorganisms from jute waste and their cellulase activity. *Int. J. Sustain. Agril. Tech.* 9(2): 58-61.
- M.S.H. Bhuiyan, M. Maksuder Rahman, M. Shahadat Hossain, M. Younus Ali and M.A. Alam. 2013. Development of high yielding jute variety BJRI Tossa pat-5. *Int. J. Sustain. Agril. Tech.* 9(5): 19-23.
- 13. A T M M Alam, M F Alom, M B Hossain, M S Hasan and **M. Younus Ali.** 2012. Effect of sowing dates and methods on seed quality of tossa jute. *Bangladesh J.Agric. and Environ.* 8(2):1-5.
- 14. M.S.H. Bhuiyan, M. S. Hossain, Izaz Ahmed, M. Younus Ali. 2012. Use of leaf color chart for nitrogen management in transplant aman rice. *Int. J. Sustain. Agril. Tech.* 8(12): 1-5.
- 15. M.A. Khan, **M. Younus Ali**, B. Hossain and Z.A. Rafique. 2010. Effect of seedling age and planting spacing on seed yield and quality of tossa jute. *Bangladesh J. Seed Sci. & Tech.* 14(1&2): 39-43.
- M.R. Jamal, M. Younus Ali, T.S. Aqter, M.B. Hossain, G A Fakir and F Yasmin. 2009. Effect of garlic and neem leaf extracts on germination and control of seed-borne fungal pathogens of jute. *Intl. J. Biores.*7 (5): 71-78.
- M.B. Hossain, Z.A. Rafiq, M.Y. Ali, M.N. Uddin and M. H. Rashid. 2020. Productivity of tossa jute seed as influenced by different planting methods and spacing under puddle condition at planting period. Bangladesh J. Environ. Sci. 39, 21-24.
- 18. A Miah, NR Saha, **MY Ali**, M Kamrujjaman, MSMS Parvej. 2020. Assessment of Genetic Divergence of Deshi Jute (*Corchorus capsularis*) Germplasms by Using Phenotypic Characters. Progressive Agriculture Vol.31 (1): 10-18.
- 19. A Miah, NR Saha, MZA Rafiq, **MY Ali**, M Hasanuzzaman. 2020. Performance Study on Yield and Yield Attributes of Seven White Jute Breeding Lines at Different Regions of Bangladesh. Progressive Agriculture Vol.31 (1): 19-25.
- 20. A Miah, NR Saha, **MY Ali**, M Kamrujjaman, MSMS Parvej, S Farabi. 2020. Genetic Divergence Analysis of Deshi Jute (*Corchorus capsularis*) Based on Fibre Yield and Its Attributing Traits. Progressive Agriculture Vol.31 (1): 26-35.
- 21. M. Babul Hossain, **M. Younus Ali**, M. Zahid al Rafiq and Izaz Ahmed. 2009. Effect of row spacing and de-heading at different growth stages of jute plant on late jute seed yield. *Int. J. Sustain. Agril. Tech.* 5(4): 63-65.
- M. Kamrujjaman, A. Miah, M. Younus Ali, S. M. Shahriar Parvej and Muhammad Tanvir Rahman.
 2020. Breeding Practices for Combining Yield and Yield Contributing Traits in White Jute (*Corchorus capsularis* L.) Genotypes. Int. J. Sustain. Agril. Tech. 16(6): 06-09.
- A. K. M. Shahadat Hossain, A. Miah, M. Kamrujjaman, M. Younus Ali and S. M. Shahriar Parvej. 2020. Genetic Stability of Selected Tossa Jute (*Corchorus olitorius* L.) Germplasms using Agro-Morphological Traits. Int. J. Sustain. Agril. Tech. 16(6): 10-12.

- M. Kamrujjaman, A. Miah, M. Younus Ali, S. M. Shahriar Parvej and Muhammad Tanvir Rahman. 2020. Evaluation of Selected Kenaf (*Hibiscus cannabinus* L.) Germplasms using Agro-Morphological Traits. Int. J. Sustain. Agril. Tech. 16(4): 21-24.
- 25. M. Babul Hossain, M. Nasir Uddin, M. Jahangir Alam, **M. Younus Ali** and M. Razib Rahman. 2014. Economic performance of jute cultivation at farm level in some selected areas of Bangladesh. *Journal of Expt. Biosci.* 5(1): 97-104.
- Md. Nasir Uddin, S. M. Mahbub Ali, Md. Younus Ali, Sabera Akter, Md. Delwar Hossain Sarker and Md. Zablul Tareq. 2020. Prestorage seed hardening effects on chemical composition of jute seed. *J. Expt. Biosci.* 11(1): 9-14.
- 27. M. Ahsan Habib, **M. Younus Ali**, M. Abdul Hye, M. Obaidul Islam. 2010. Effect of split application of N-fertilizer on growth and yield attributes of winter mugbean. *J. Subtrop. Agric. Res. Dev.* 8(2): 784-787.
- 28. M R Islam, S Sarker, **M. Younus Ali,** M B Hossain and E R Choudhury. 2010. Involvement of brac trained women beneficiaries in income generating activities. *Eco-friendly Agril. J.* 3(6): 278-282.
- 29. M R Islam, S Sarker, E R Choudhury, **M. Younus Ali** and M B Hossain. 2010. Involvement of brac trained women beneficiaries in decision making role in house hold health care. *Eco-friendly Agril. J.* 3(6): 289-294.
- M.S.H. Bhuiyan, Izaz Ahmed, M. Kamruzzaman, M. Younus Ali and A. Miaii. 2009. Effect of moisture and container on germination storability of ridge gourd seed. *Int. J. Sustain. Agril. Tech.* 5(7): 01-05.
- 31. E R Choudhury, S Sarkar, M R Islam, M Y Ali and M B Hossain. 2010. Farmers characteristics associated with the participation in fish development activities of BAUEC. *Eco-friendly Agril. J.* 3(6): 283-288.
- 32. Mahbubul Islam, Saheb Ali, M. Momotaz Ali, **M. Younus Ali** and M. Babul Hossain. 2018. Jute fibre yield and economics in charland areas of Bangladesh. *Research in: Agricultural & Veterinary Sciences*. Vol.2, No.1: pp.59-65.
- 33. Md. Jewel Alam, Md. Azam Uddin, Most. Khairun Nahar, Md. Younus Ali, and Kazi Shahanara Ahmed. 2020. Enhancement of maize productivity through using improved techniques of spacing. J. Expt. Biosci. 11(2): 27-34.

B. Books/ Monographs/ Bulletins

Items	Number
i. Books	
- পাট, কেনাফ ও মেন্তা ফসলের বীজ উৎপাদন ও সংরক্ষণ কলাকৌশল বিষয়ক প্রশিক্ষণ সহায়িকা	01
- Programmme Completion Report on Improvement of produced jute on the	
charland through application of improved cultivation and retting practices	01
- রিবন রেটিং প্রযুক্তির উন্নয়ন ও কৃষক পর্যায়ে সম্প্রসারণ কর্মসূচী প্রতিবেদন $2010\mathchar`2011$	01
- রিবন রেটিং প্রযুক্তির উন্নয়ন ও কৃষক পর্যায়ে সম্প্রসারণ কর্মসূচীর সমাপ্তি প্রতিবেদন জুলাই 2010 - জুন 2012	01
- BJRI Annual Research Programme 2019, 2020, 2021, 2022	04
- BJRI Annual Research Report 2019, 2020, 2021	03
ii. Leaflet	
Principal Author	
Co-author	04
iii. Booklet	02
Principal Author	
Co-author	02
iv. Bulletins/Report on jute production in The Guardian, July 2014	01
iv. Monograms	
Principal Author, Co-author	

C. Seminar/ Workshop/ Symposium Proceedings

Items	Number
i. National Seminar/Workshop	11
Principal Author	
Co-author	11
ii. International Workshop/ Seminar	01
Principal Author	
Co-author	01

15. Research achievements (SO to SSO)

a) List of Technology developed and transferred

Name of research program(s)/Project(s)	Implementation status	Remarks
Developed		
1. Effect of Molybdenum (Mo) on seed	Conducted in 2006 in Rangpur station	Results were
yield of tossa jute in late season	and repeated up-to 2008	good
	(Tech. Program, 2006-2007)	
2. Effect of plant density and time of	Conducted in 2007 in Rangpur station	Results were
sowing on growth and seed yield of tossa	and repeated up-to 2009	good
jute in late season	(Tech. Program, 2007-2008)	
3. Effect of detopping at different growth	Conducted in 2008 in Rangpur station	Results were
stages of tossa jute on seed yield under	and repeated up-to 2010	good
transplanting method	(Tech. Program, 2008-2009)	
4. Effect of variety and time of sowing on	Conducted in 2008 in Rangpur station	Results were
seed yield and quality of Kenaf in late	and repeated up-to 2010	good
season	(Tech. Program, 2008-2009)	
5. Low cost retting of jute using jute	Conducted in 2009 and repeated to 2010	Results were
Hessian	(Tech. Program, 2009-2010)	satisfactory
6. Studies on retting and fibre properties of	Conducted in 2010 and repeated to 2012	Results were
different pipeline and pre-released	(Tech. Program, 2010-2011)	satisfactory
varieties of jute (C. capsularis Acc.2197		_
and C.olitorius Acc.3820)		
7. Collection of retting effluents from	Conducted in 2010 and repeated to 2012	Results
different jute growing districts and study	(Tech. Program, 2010-2011)	satisfactory
of their retting properties		
8. Type of Jak for the production of quality	Conducted in 2011 and repeated to 2013	Results
fibre in a canal or small ditches	(Tech. Program, 2011-2012)	satisfactory
9. Comparative study on the fibre obtained	Conducted in 2011 and repeated	Results
from the jute plants retted with leaves,	upto2014 (Tech. Program, 2011-2012)	satisfactory
without leaves and ribbon retting		_
technique and cost analysis		
10. Development of power jute ribboner	Conducted in 2012 and repeated to 2013	Results
	(Tech. Program, 2012-2013)	satisfactory
11. Jute retting in char land areas of	Conducted in 2013, 2014	Results
Bangladesh		satisfactory
12. Development auto power jute ribboner/	Conducted in 2013 and repeated to 2015	Results
Jute decorticator	(Tech. Program, 2013-2014)	satisfactory
13. Whitening of blakish colored fibre of	Conducted in 2018, 2019	Results
jute using TSP		satisfactory
14. Development of BJRI Jute Harvester	Conducted in 2018, 2019	Results
		satisfactory

List of Research programme Supervised and Executed in different years (SO – SSO)

b) Supervised

2006-2007
1. Effect of Molybdenum (Mo) on seed yield of tossa jute in late season
2. Effect of plant density and time of sowing on growth and seed yield of tossa jute in late season
2007-2008
3. Effect of Molybdenum (Mo) on seed yield of tossa jute in late season
2008-2009
4. Effect of variety and sowing spacing on fibre yield of olitorius jute (BJRI and Indian)
5. Study on production cost and economic return of jute at farmers' level
6. Effect of Molybdenum (Mo) on seed yield of tossa jute in late season
7. Effect of detopping at different growth stages of tossa jute on seed yield under transplanting method
8. Effect of seedling age and planting spacing on the yield and quality of modern variety
of <i>C. olitorius</i> jute seed in late season
2009-2010
9. Effect of variety and time of sowing on seed yield and quality of Kenaf in late season
10. Effect of detopping at different growth stages of tossa jute on seed yield under transplanting method
11. Study on production cost and return of jute at farmers' level
12. Effect of variety and time of sowing on seed yield and quality of Kenaf in late season (2 nd year)
13. Effect of detopping at different growth stages of tossa jute on seed yield under transplanting method
(3 ^m year)
14. Comparative study on the fibre obtained from the jute plants retted with leaves, without leaves and
ribbon retting technique and cost analysis
15. Optimum field duration of jute crop for economic and viable ribbon retting technique
16. Investigation of jute retting microbes in coastal/saline area and study of their retting efficacy for
2012-2013
17 Comparative study on the fibre obtained from the jute plants retted with leaves without leaves and
ribbon retting technique and cost analysis
18. Study of the mechanical efficiency of Power operated Jute Ribboner
19. Role/Impact of optimum field duration of jute crop in ribbon retting in respect of it's technical and
economic viability
20. Investigation of jute retting microbes in coastal/saline area and study of their retting efficacy for
obtaining better jute fibre
2013-2014
21. Comparative study on the fibre obtained from the jute plants retted with leaves, without leaves and
ribbon retting technique and cost analysis
22. Role/ Impact of optimum field duration of jute crop in ribbon retting in respect of it's technical and
economic viability
2014-2015
23. Comparative study on the fibre obtained from the jute plants retted with leaves, without leaves and
ribbon retting technique and cost analysis
24. Study of the mechanical efficiency of Power operated Jute Ribboner
25. Development and performance study of Auto Power Jute Ribboner
2015-2016
26. Comparative study on microbes of different sources of covering materials on jak before and after the
jute retting
27. Development and performance study of Auto Power Jute Ribboner
28. Impact of optimum field duration and time of ribboning after harvest of jute by auto-ribboner in
respect of its technical and economic viability

2020-2021

29. Isolation and Identification of jute retting bacterial strains from different natural sources and study of their retting properties

c) Executed

2007-2008					
1. Effect of Molybdenum (Mo) on seed yield of tossa jute in late season					
2008-2009					
2. Effect of variety and sowing spacing on fibre yield of olitorius jute (BJRI and Indian)					
3. Study on production cost and economic return of jute at farmers' level					
4. Effect of Molybdenum (Mo) on seed yield of tossa jute in late season					
5. Effect of detopping at different growth stages of tossa jute on seed yield under transplanting method					
6. Study on weed management in late jute seed crop by increasing plant population					
2009-2010					
7. Effect of variety and time of sowing on seed yield and quality of Kenaf in late season					
8. Effect of Molybdenum (Mo) on seed yield of tossa jute in late season					
9. Effect of plant population on different spacing for yield and quality of different tossa jute					
10. Study on production cost and return of jute at farmers' level in different AEZ of Bangladesh					
11. Effect of variety and time of sowing on seed yield and quality of Kenaf in late season					
12. Effect of detopping at different growth stages of tossa jute on seed yield under transplanting method					
2010-2011					
13. Effect of variety and sowing spacing on the performance of olitorius jute (BJRI and Indian)					
(3 nd year)					
14. Study on the fertilizer requirement of jute and T.aman rice in Potato-Jute-T.aman rice cropping					
pattern					
15. Study on the fertilizer requirement of jute after potato cultivation					
16. Study on production cost and return of jute at farmers' level (3 nd year)					
17. Effect of variety and time of sowing on seed yield and quality of Kenaf in late season (2 nd year)					
18. Effect of detopping at different growth stages of tossa jute on seed yield under transplanting method (2 nd year)					
19. Isolation of microbes from various natural sources and study of their retting properties					
20. Studies on retting and fibre properties of different pipeline and pre-released varieties of jute (C.capsularis and C.olitorius)					
21. Collection of retting effluents from different jute growing districts and study of their retting					
properties					
22. Study on different type of jak for the production of quality fibre in a canal or small ditches					
23. Cost analysis of different covering materials used on jak and their effect on fibre quality					
24. Comparative study on the fibre obtained from the jute plants retted with leaves, without leaves and					
ribbon retting technique and cost analysis					
25. Optimum field duration of jute crop for economic and viable ribbon retting technique					
2012-2013					
26. Isolation of microbes from various natural sources and study of their retting properties					
27. Study on different type of jak for the production of quality fibre in a canal or small ditches					
28. Study of the mechanical efficiency of Power operated Jute Ribboner					
29. Role/ Impact of optimum field duration of jute crop in ribbon retting in respect of it's technical and					
economic viability					
30. Investigation of jute retting microbes in coastal/saline area and study of their retting efficacy for					
obtaining better jute fibre					

2013-2014
31. Studies on retting and fibre properties of different pipeline and pre-released varieties of jute
(C.capsularis and C.olitorius)
32. Collection of retting effluents from different jute growing districts and study of their retting
properties
33. Study on different type of jak for the production of quality fibre in a canal or small ditches
34. Comparative study on the fibre obtained from the jute plants retted with leaves, without leaves and
ribbon retting technique and cost analysis
35. Study of the mechanical efficiency of Power operated Jute Ribboner
26 Pole/Impact of optimum field duration of jute grop in ribbon rating in respect of it's technical and

36. Role/ Impact of optimum field duration of jute crop in ribbon retting in respect of it's technical and economic viability

2014-2015 37. Isolation of microbes from various natural sources and study of their retting properties 38. Studies on retting and fibre properties of recently released jute varieties of Tossa and Deshi jute 39. Collection of retting effluents from different jute growing districts and study of their retting properties 40. Comparative study on the fibre obtained from the jute plants retted with leaves, without leaves and ribbon retting technique and cost analysis 41. Study of the mechanical efficiency of Power operated Jute Ribboner 42. Development and performance study of Power Jute Ribboner 2015-2016 43. Isolation of microbes from various natural sources and study of their retting properties 44. Studies on retting and fibre properties of pre- released jute varieties 45. Comparative Study on fibre properties of released and cultivable jute and kenaf varieties in same source of retting water 46. Collection of retting effluents from different jute growing districts and study of their retting properties 47. Comparative study on microbes of different sources of covering materials on jak before and after the jute retting 48. Study on jak and water volume ratio and improvement of retting water for 2^{nd} time retting in stagnant condition 49. Study of the mechanical efficiency of Auto Power Jute Ribboner 50. Impact of optimum field duration and time of ribboning after harvest of jute by auto-ribboner in respect of its technical and economic viability 51. Investigation of jute retting microbes in coastal/ saline area and study of their retting efficacy for obtaining better jute fibre 2020-2021 52. Isolation and Identification of jute retting bacterial strains from different natural sources and study of their retting properties 53. Comparative studies on retting time and physical and chemical properties of kenaf and mesta

- 2022-2023
- 54. Retting period and fibre properties of different advanced breeding lines of jute and kenaf
- 55. Isolation and Identification of jute retting bacterial strains from different natural sources and study of their retting properties
- 56. Comparative studies on retting time and physical properties of kenaf and mesta

16. Outstanding achievements

Organism identification

a) Ten (10) jute retting bacteria were identified and published in NCBI GenBank on 31.03.2021 as Principal Author. GenBank accession numbers are as follows:

Strain name	Sequences	GenBank acc. no.	Identified bacteria
S ₄	Sequence1	MW767007	Bacillus cereus
S ₆	Sequence2	MW767008	Bacillus cereus
S ₇	Sequence3	MW767009	Enterobacter ludwigii
S ₉	Sequence4	MW767010	Bacillus tropicus
S ₁₂	Sequence5	MW767011	Bacillus cereus
S ₁₃	Sequence6	MW767012	Bacillus aerius
S ₁₆	Sequence7	MW767013	Aeromonas sanarellii
S ₁₉	Sequence8	MW767014	Citrobacter freundii
S ₂₂	Sequence9	MW767015	Bacillus tropicus
S ₂₄	Sequence10	MW767016	Bacillus cereus
S ₂₈	Sequence11	MW767017	Enterobacter hormaechi
S ₂₉	Sequence12	MW767018	Bacillus cereus
S _{33b}	Sequence13	MW767019	Priestia aryabhattai
S ₄₀	Sequence14	MW767020	Shigella flexneri
S ₄₁	Sequence15	MW767021	Bacillus subtilis

b) Jute retting bacteria isolation by 16S rRNA gene sequencing, BLASTn search and phylogenetic analysis, Reduction of jute retting period and improvement of fibre quality using efficient pectinolytic bacteria, Development of power jute ribboner and auto-power jute ribboner, and Development of jute harvester.

2023

Signature With date and Address



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