

## CURRICULUM VITAE

Md. Moudud Ahmmed  
Agricultural Engineer  
Workshop Machinery & Maintenance Division,  
Bangladesh Rice Research Institute, Gazipur-1701, Bangladesh.  
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### Education

- 2018-2019 Master of Science (M.S.) in Farm Structure and Environmental Engineering  
Bangladesh Agricultural University  
Thesis: Development of lightweight building blocks using expanded polystyrene
- 2014-2018 Bachelor of Science (B.Sc.) in Agricultural Engineering  
Bangladesh Agricultural University  
Project: Comparative study on the strength of cement-sand-gravel blocks prepared at different proportions

### Professional Experience

- **Agricultural Engineer**, Workshop Machinery & Maintenance Division, Bangladesh Rice Research Institute, Gazipur-1701 (December,2021-Present)

### Publications

- Paul, S., Nath, B.C., Hossen, A., Pintu, K., Paul, H., Islam, S., Khan, A.U. and **Ahmmed, M.** (2023) Development and Fabrication of Manually Push-Pull Type Conical Weeder for Bangladesh Condition. *Agricultural Sciences* 14,685-709 <https://doi.org/10.4236/as.2023.145046>
- Khan, A.U., Islam,A.S., Pintu, Md.K., Paul, S., Huda, Md.D.,Hossen, Md.A., Islam, Md.M. and **Ahmmed, Md.M.** (2024) Assessment of BRRRI Whole Feed Combine Harvester (Model BRRRI WCH2021) for Mechanized Rice Harvesting in Bangladesh. *Agricultural Sciences*, 15, 274-291. <https://doi.org/10.4236/as.2024.152016>
- Alam MF, Momin MA, Hossain MI, Akter S, khan AU, and **Ahmmed MM.** (2024). Field performance evaluation of a power tiller operated potato planter. *Aust. J. Eng. Innov. Technol.*, 6(1), 19-25. <https://doi.org/10.34104/ajeit.024.019025>
- Bhuiyan GK, Alam MM, Rahman A, Huda MD, **Ahmmed MM**, Nath BC and Islam MM. (2024). A comprehensive overview of automatic rice milling with modern machinery in Bangladesh. *Am. J. Pure Appl. Sci.*, 6(2), 28-38. <https://doi.org/10.34104/ajpab.024.028038>
- Bhuiyan GK, Alam MM, Rahman A, Huda MD, **Ahmmed MM**, Nath BC, and Rahaman H. (2024). Optimizing rice milling in Bangladesh: a comprehensive analysis of semi-automatic processes with modern machinery, *Int. J. Mat. Math. Sci.*, 6(1), 5-13. <https://doi.org/10.34104/ijmms.024.05013>
- Hossain MA, Rahaman H, **Ahmmed MM**, Khan AU, Hossen MA, Nath BC, Huda MD, Bhuiyan MGK, and Hossain M. (2023). Development of a power tiller operated safe grain cleaner. *Am. J. Pure Appl. Sci.*, 5(5), 116-123. <https://doi.org/10.34104/ajpab.023.01160123>

- **Ahmed MM**, Abedin MZ, Paul S, Rahaman H, and Islam S, (2023). Comparative Study on the Strength of Cement-Sand-Gravel Blocks Prepared at Different Proportions. *United International Journal for Research & Technology (UIJRT)*. 4(12), PP. 41-48. <https://uijrt.com/volume-04-issue-12>
- **Ahmed M**, Abedin Z, Paul S, Bhuiyan GK, Rahaman H, Hossain MA, Islam M and Khan AU (2023). Development of lightweight building blocks using expanded polystyrene. *GSC Advanced Research and Reviews*, 2023, 17(02), 047–059. <https://doi.org/10.30574/gscarr.2023.17.2.0402>
- Hossain MA, Bhuiyan MGK, Rahaman H, **Ahmed MM**, Huda MD, and Khan AU. (2023). Modification of the power transmission system of BRR1 hydro-tiller, *Int. J. Mat. Math. Sci.*, 5(3), 19-24. <https://doi.org/10.34104/ijmms.023.0190024>
- **Ahmed, M. M.**, M. D. Huda, B. C. Nath, S. Paul, M. G. K. Bhuiyan, H. Rahaman, F. Rahman, H. Paul, M. M. Islam, and A. U. Khan. 2024. Commercializing mechanical rice transplanter in Bangladesh: A review. *Agricultural Engineering International: CIGR Journal*, 26(3):79-94. Publisher: International Commission of Agricultural and Biosystems Engineering, URL: <https://cigrjournal.org/index.php/Ejournal/article/view/9287>
- Nath, B., Bari, H., Paul, H., Omar, M. I., Haque, M. A., Paul, S., Bhuiyan, M. G. K., & **Ahmed, M. M.** (2024). Rice bran and rice bran oil production perspective in Bangladesh: a review. *Journal of Science Food and Agriculture*. Publisher: Wiley doi:10.1002/jsfa.14104
- Paul, S., B. C. Nath, M. D. Huda, H. Paul, S. Islam, M. M. Islam, M. M. Shahriar, and **M. M. Ahmed**. 2024. Design and development of a double-row weeder for rice field: Eco-Friendly weed management solution. *Agricultural Engineering International: CIGR Journal*, 26(4):27-44. Publisher: International Commission of Agricultural and Biosystems Engineering, URL: <https://cigrjournal.org/index.php/Ejournal/article/view/9261>
- Bhuiyan, M. G. K., **Ahmed, M. M.**, Paul, S., Huda, M. D., Hossain, M. A., Rahman, A., and Nath, B. 2024. Milling recovery of BRR1 dhan71 and BRR1 dhan82 under different moisture content. *Journal of Agricultural Machinery and Bioresources Engineering*, 8(2):62-67. <https://doi.org/10.61361/jambe.v8i2.128>
- Bidhan Nath, Md. Moudud Ahmed, Subrata Paul, Md Durrul Huda, Mohammad Afzal Hossain and Sharmin Islam ; 2025. Unlocking the Potential of Rice Straw: Sustainable Utilization Strategies for Bangladesh; *Circular Economy*; Vol.4 Issue 1 Publisher: ELSEVIER <https://doi.org/10.1016/j.ccc.2025.100126>

### Technical Report Writing

- Mechanization needed to raise rice production; July 21, 2023; The Daily Observer
- Agricultural Mechanization in Bangladesh; July 20, 2023; The New Nation
- CCDB's role in promoting renewable energy; October 23, 2024, The Daily Observer
- Techniques of rice transplanter suitable seedling preparation, potential problems and do's; December 6, 2023; Agrilife24.com

### Training and Workshop

- Training on Advanced Farm Mechanization for Agricultural Transformation by Bangladesh Agricultural Research Institute (20-24 April, 2025)
- Training on GIS and Remote Sensing organized by Bangladesh Agricultural Research Institute (June, 2024)
- Modern Farm Mechanization training at National Agriculture Training Academy (May,2024)
- Training on Public Service Innovation by Cabinet Division & a2i Programme, ICT Division ( 24-25 April, 2024)

- Research data management using spread sheet training organized by Bangladesh Rice Research Institute (January, 2024).
- Training on Modern Rice Production Technologies at Bangladesh Rice Research Institute (January-March, 2022).
- Training on Basics of MS Office organized by Graduate Training Institute, Bangladesh Agricultural University (February-March, 2016)
- Extension Field Trip organized by Department of Agricultural Extension Education, Bangladesh Agricultural University (February, 2017)

### Awards

- Community Development Award by Bangladesh Scouts (January, 2019)

### Research Interest

- IoT and Drones in smart Agriculture
- Precision Agriculture
- Remote Sensing and GIS Application in Agriculture
- Agricultural Machinery and Mechanization

### Software skills

- Solid works
- Auto CAD

### Membership

- Member | Bangladesh Society of Agricultural Machinery and Bioresources Engineering (BSAMBE)
- Member | The Institution of Engineers, Bangladesh (M-44608)
- Member | Bangladesh Society of Agricultural Engineering
- Member | Bangladesh Rice Research Institute Scientist's Association (BRRISA)
- Member | Krishibid Institution Bangladesh

### Extra-Curricular Activities

- Rover mate, Bangladesh Agricultural University Rover Scout Group
- Secretary, BAU Prothom Alo Bandhushova
- Member, BADHON Blood doner organization, BAU

### Conference/ Symposium

- 3rd Annual Paper Meet-2022 organized by Agricultural Engineering Division, The Institution of Engineers, Bangladesh (November, 2022)
- Symposium on Sustainable Agriculture, Soil Health, Healthy Food and Youth & Women Empowerment: subsidies in organic fertilizer organized by Bangladesh Agricultural Research Institute and ActionAid (20-21 December, 2024)
- 1<sup>st</sup> International Conference on Agricultural Machinery & Bioresource Engineering organized by Bangladesh Society of Agricultural Machinery and Bioresources Engineering (12-13 February, 2025)

### Important Links:

- Research Gate: <https://www.researchgate.net/profile/Md-Ahmmmed-17>
- ORCID ID: <https://orcid.org/my-orcid?orcid=0009-0004-8298-1689>
- Google Scholar: <https://scholar.google.com/citations?user=SJ1r4YkAAAAJ&hl=en>
- LinkedIn: <https://www.linkedin.com/in/moudud-ahmmmed-932430182/>