

Muslimah building, and a building planned to house an integrated Islamic elementary school. Currently, the Uswah Hasanah Tahfizh Center has six campuses.

As it continues to grow, the Uswah Hasanah Tahfizh Islamic Boarding School (Ma'had Tahfizh Uswah Hasanah) continues to improve its facilities for its students. One such facility is the establishment of a laundry unit within the boarding school, a situation previously handled by a third party outside the boarding school. Students wash their clothes there daily. With the current number of students reaching around 120, the need for soap and cleaning products is certainly considerable. It presents an opportunity for other business units within the boarding school to sell soap to the laundry unit. Synthetic chemical cleaning agents have been used for laundry. While beneficial as cleaners, they also have negative impacts on the health of users and the environment. The type of detergent commonly used in households contains ABS (Alkyl Benzene Sulfonate), a harsh detergent. This detergent is difficult for microorganisms to break down (non-biodegradable), thus causing environmental pollution (Kusumawardani, 2021). Aquatic environments contaminated with high concentrations of this type of harsh detergent waste will threaten and endanger the lives of aquatic life and the humans who consume it. The more detergent contained in the water, the greater the impact on fish survival (Isti'annah, 2017). This results in the daily detergent waste produced by households becoming hazardous waste and threatening environmental stability. Household detergent waste disposed of in water bodies can reduce the diversity of aquatic life and cause the death of several fish species, such as the giant freshwater prawn (*Macrobrachium Rosenbergii*). (Handayani, 2020).

Green cleaning refers to cleaning methods that use products and techniques with ingredients that are harmless to the environment and human health (EPA Safer Choice & Green Seal). The following presents photos of Ma'had and student laundry activities:



Figure 1. Ma'had Tahfizh Uswah Hasanah

1. The Uswah Hasanah Islamic Boarding School has a laundry unit that washes the clothes of all students. It naturally requires a significant amount of soap, which is currently purchased externally at a high total cost, and the soap is not environmentally friendly. This dependence on purchasing soap and other cleaning products from external sources is due to the non-environmentally friendly materials.
2. There is no accounting application system to record transactions and financial reporting at the Islamic boarding school's existing or future business units, which are based on the production of environmentally friendly cleaning products.

Based on the above problems, the UMB PKM team proposes the following solutions: solution to problem 1:

1. Provision of a Soap Making Machine. As a solution to overcome dependence on purchased soap from outside, Islamic boarding schools are being provided with soap-making machines. This machine will enable them to produce their own soap, whether for laundry, floor cleaning, or dishwashing. It will allow them to reduce their monthly costs for purchasing soap from outside. Furthermore, they will be provided with environmentally friendly soap ingredients. These ingredients can be natural, such as coconut oil, baking soda, or other organic materials that are harmless to the environment and human health. By using environmentally friendly ingredients, Islamic boarding schools not only save money but also contribute to sustainability and environmental preservation.
2. Cost Efficiency and Sustainability. By producing their own soap, Islamic boarding schools can significantly reduce their monthly expenses for purchasing cleaning products from outside. They also support the principle of sustainability, which is crucial for maintaining the surrounding ecosystem. These savings can be allocated to other, more pressing needs, such as developing Islamic boarding school facilities or improving the quality of education.
3. Training and Counseling. To ensure the successful use of soap-making machines and environmentally friendly materials, training was conducted for Islamic boarding school administrators and students. This training covered the correct methods of soap-making and the importance of choosing safe and environmentally friendly materials for health and sustainability. This approach is expected to improve students' entrepreneurial competencies, foster awareness of the importance of cleanliness and environmental preservation, and foster independent and innovative character (Puji, Choiriah, Setiyawati, 2025).

Solution to problem 2, namely:

1. Accounting Digitalization for Financial Transaction Recording. Islamic boarding schools will be provided with Accurate software, a desktop version of Accurate, an offline accounting software that can be installed on a local computer and offers comprehensive features. By using Accurate software, the Ma'had Tahfizh Uswah Hasanah will more easily create integrated financial reports, such as Profit and Loss Statements, Balance Sheets, and Cash Flow Statements. It will reduce the time required to prepare financial reports and increase the accuracy of the resulting reports.
2. Islamic boarding schools will also receive training on how to operate the system. This training will ensure that financial managers and staff involved in recording transactions can use the system effectively.
3. Improving Financial Management Efficiency. With accounting software, the financial management of Ma'had Tahfizh Uswah Hasanah will be more efficient and structured. Every recorded transaction can be immediately monitored, and financial reports can be generated more



quickly and accurately. Islamic boarding school managers can also more easily monitor business unit finances, enabling them to make more informed business decisions.

4. Improving Transparency and Accountability. With a more structured system, the finances of the Ma'had Tahfizh Uswah Hasanah Islamic Boarding School will become more transparent. More streamlined transaction recording will ensure that all financial activities are accountable, both to internal and external parties (such as donors or those who support the school).

Overall, with these solutions, the Ma'had Tahfizh Uswah Hasanah Islamic Boarding School can reduce its dependence on external soap purchases and improve its financial management, leading to greater efficiency and transparency. Implementing these solutions also supports the sustainable development of the Islamic boarding school, both economically, environmentally, and managerially.

The results of the relevant Proposing Team's service are (G A Arwati, 2023) conducting community service on the production of environmentally friendly cleaners/green cleaners, the results stated that: the production of environmentally friendly cleaners/green cleaners increased the efficiency of the Islamic boarding school and improved the health of the students as well as increased welfare for teachers obtained from the sale of environmentally friendly cleaning products/green cleaners. (I Gusti Ayu Arwati, 2020) Conducting community service on Overcoming Obstacles in the Development of IKRT/UMK Through the Application of Timely Technology, the results state that (1) appropriate technology can be used in the production process. (2) Improving the quality of green cleaning product formulations and (3) governance management and marketing strategies. Moreover, can realize IKRT Suradita, which is more effective and efficient and has sustainable competitiveness.

METHODS

The role of partners is crucial to the smooth running of the project. Coordination and understanding are required from both parties: the implementation team and the partner, the Ma'had Tahfizh Uswah Hasanah, located in the South Sudimara sub-district, Ciledug district, Tangerang, Banten. Partners follow the PKM Team's guidance and participate in learning, training, outreach, and the implementation of environmentally friendly liquid soap production and digital accounting using Accurate software. After completing a series of activities, the team evaluates the partners. The evaluation process includes:

1. Partners' ability to understand the liquid soap production module using a soap mixer, along with the sequence and composition of environmentally friendly raw materials used. It includes calculating the cost of production and determining the selling price.
2. Partners are expected to be able to implement environmentally friendly soap production, market their products, and operate Accurate software to generate accurate and transparent financial reports.
3. Partners are expected to be able to sustainably produce environmentally friendly liquid soap and continue to operate Accurate software without any system issues.
4. Analyze and evaluate shortcomings and obstacles during the PKM activity process, including the production of environmentally friendly liquid soap and the production of accurate and reliable financial reports through the implementation of Accurate software.
5. Develop environmentally friendly soap products, for example, by increasing the variety of soap products or selling them with a refill system to achieve lower and more competitive prices.



RESULTS AND DISCUSSION

On October 7, 2025, the PKM Team and resource persons attended the PKM location, the Ma'had Tahfizh Uswah Hasanah Islamic boarding school in South Sudimara Village, Tangerang. The PKM activity began with a ceremonial opening by the PKM chair and madir of Ma'had Tahfizh Uswah Hasanah, as well as the handover of a liquid soap mixer and training materials.

The PKM Team and resource persons then presented training materials on making environmentally friendly liquid soap, and then practiced the training with the participants, consisting of Islamic boarding school staff and students.



Figure 4. Opening of the implementation of PKM

The soap-making training began with the installation of a soap mixer machine and a UV disinfectant device. Water quality was checked using a TDS device to measure the total amount of dissolved solids in water, such as minerals, salts, and metals, to determine the quality and purity of the water. Another tool was a pH meter to determine whether the solution was acidic (pH below 7), basic (pH above 7), or neutral (pH 7). The test results of both devices showed that the water quality at the Islamic boarding school was quite suitable for use in producing liquid soap.



Figure 5. Training in making liquid soap

The total production of liquid soap was 220 liters, consisting of 40 liters for each type of soap: detergent, bath soap, dish soap, floor cleaner, fabric freshener, and 20 liters for hand soap. It was packaged in 200 Jerry cans for liquid soap and 40 pump bottles for hand soap. Approximately 70% of the production was sold directly (sold internally within the Ma'had).



Figure 6. Results of environmentally friendly liquid soap production

Next, the PKM team and resource persons provided training for the accounting and finance staff of the Ma'had, specifically on implementing Accurate Accounting software. The training began with installing the software and creating a chart of accounts based on transactions for both the Ma'had and the laundry and minimarket business units, which are separate from the Ma'had's finance department. The next step was data input based on existing transactions and documents.

The final training provided information on the output of Accurate software, namely the forms and functions of the financial reports it produces.



Figure 7. Accounting software training

CONCLUSION

The Community Service Program (PKM) activities at the Ma'had Tahfizh Uswah Hasanah in South Sudimara Village, Ciledug, Tangerang City, were held on October 7, 2025. The targets set at the beginning of the PKM program were also achieved:

1. Availability of one soap mixer machine.
2. Training in making environmentally friendly liquid soap.
3. 100% increase in the skills of the Ma'had administrators, ustadz, and students in mastering soap-making techniques so they can produce and sell soap.
4. Development of Accurate Accounting Software.
5. Training in creating accurate and transparent financial reports using Accurate Accounting Software. Meningkatnya 100% kemampuan bagian akuntansi untuk dapat melakukan pencatatan financial transactions and reporting and the implementation of Accurate Accounting Software.

REFERENCES

Chirani, M. K. (2021). Environmental impact of increased soap consumption during covid-19 pandemic: biodegradable soap production and sustainable packaging. *The Science of the Total Environment*. <https://doi.org/10.1016/j.scitotenv.2021.149013>



This open-access article is distributed under a
Attribution (CC-BY-NC) 4.0 license

- Dewi Kirowati, R. I. (2021). Implementasi Akuntansi Pesantren Pada Pondok Pesantren Al-Mujaddadiyyah Kota Madiun. *Jurnal Riset Terapan Akuntansi*.
- Eman, S. (2018). Desain Pembelajaran Kewirausahaan. Alfabeta Bandung Ramom Rachide Nunes et al. EPA Safer Choice & Green Seal, G. S. (n.d.). global nonprofit committed to making sustainability everyone's business.
- G A Arwati, S. (2023). Counseling And Making Environment-Friendly Cleansing Using Fruit and Flower Extractsin the Framework of Increasing the Welfare of Teachers and Preparing Independent Entrepreneurship For SMA-IT S. *International Journal of Community Service*, 289-293. <https://doi.org/10.51601/ijcs.v3i4.225>
- Gaurav, G. D. (2023). The environmental impacts of bar soap production: uncovering sustainability risks with lca analysis. *Sustainability*, 9287. <https://doi.org/10.3390/su15129287>
- Handayani, L. (2020). Pengaruh Kandungan Deterjen Pada Limbah Rumah Tangga.
- I Gusti Ayu Arwati, E. N. (2020). Overcoming Obstacles in The Development of Ikrt / Umk Through Application of Appropriate Technology. *DIJDBM*. <https://doi.org/10.31933/dijdbm.v1i3.242>
- Isti'anah, S. N. (2017). Pengaruh Pencemaran Limbah Detergen terhadap Biota Air. *Journal EnviScience (Environmental Science)*. <https://doi.org/10.30736/jev.v1i1.90>
- Kieso, W. &. (2017). *Intermediate Accounting 3rd edition (IFRS Edition)*. John Wiley.
- Kusumawardani, Y. S. (2021). The effectiveness of reducing COD, tss, and detergent using banana stem filter media in the wastewater treatment of motor vehicles. *Jurnal Presipitasi Media Komunikasi Dan Pengembang*. <https://doi.org/10.14710/presipitasi.v18i1.37-44>
- Li, Q. H. (2024). The influence of unfamiliar ingredients on the greenness evaluation of environmentally friendly products. *Journal of Product & Brand Management*, 684-701. <https://doi.org/10.1108/JPBM-09-2023-4741>
- Puji, Choiriah, Setiyawati, dll, 2025. Pembuatan Handsoap Ramah Lingkungan Berbahan Dasar Apel untuk Mempersiapkan Wirausaha Mandiri Siswa SMAN 2 Rangkasbitung, Kabupaten Lebak. <https://doi.org/https://doi.org/10.37817/ikra-ithabdimas.v9i2> *Jurnal IKRAITH-ABDIMAS* Volume 9 Nomor 2 Juli 2025462
- Rozaidin. (2020). Penerapan Akuntansi Pondok Pesantren (Studi pada Koperasi Pondok Pesantren Al Hasyimi Kabupaten Pekalongan). *Journal of Economic Studies Ekonomika Syariah*, 136 – 147. <https://doi.org/10.30983/es.v4i2.3716>
- Suherman, L. P. (2019). Analisis Pentingnya Akuntansi Pesantren: Studi pada Pondok Pesantren Al-Matuq Sukabumi. *Jurnal Akuntansi Terapan Indonesia*, 65-70. <https://doi.org/10.18196/jati.020220>