

REFERENCES

- [1] F. Pacheco-Torgal and S. Jalali, "Earth construction: Lessons from the past for future eco-efficient construction," *Constr. Build. Mater.*, vol. 29, pp. 512–519, 2012.
- [2] D. Silveira, H. Varum, A. Costa, T. Martins, H. Pereira, and J. Almeida, "Mechanical properties of adobe bricks in ancient constructions," *Constr. Build. Mater.*, vol. 28, no. 1, pp. 36–44, 2012.
- [3] J. C. Morel, A. Mesbah, M. Oggero, and P. Walker, "Building houses with local materials: Means to drastically reduce the environmental impact of construction," *Build. Environ.*, vol. 36, no. 10, pp. 1119–1126, 2001.
- [4] D. Allinson and M. Hall, "Hygrothermal analysis of a stabilised rammed earth test building in the UK," *Energy Build.*, vol. 42, no. 6, pp. 845–852, 2010.
- [5] F. McGregor, A. Heath, E. Fodde, and A. Shea, "Conditions affecting the moisture buffering measurement performed on compressed earth blocks," *Build. Environ.*, vol. 75, pp. 11–18, 2014.
- [6] J. E. Aubert, P. Maillard, J. C. Morel, and M. Al Rafii, "Towards a simple compressive strength test for earth bricks?," *Mater. Struct. Constr.*, vol. 49, no. 5, pp. 1641–1654, 2016.
- [7] P. J. Walker, "Strength, durability and shrinkage characteristics of cement stabilised soil blocks," *Cem. Concr. Compos.*, vol. 17, no. 4, pp. 301–310, 1995.
- [8] A. L. Murmu and A. Patel, "Towards sustainable bricks production : An overview," *Constr. Build. Mater.*, vol. 165, pp. 112–125, 2018.
- [9] M. Khemissa and A. Mahamedi, "Cement and lime mixture stabilization of an expansive overconsolidated clay," *Appl. Clay Sci.*, vol. 95, pp. 104–110, 2014.
- [10] K. Swapna and K. Giridhar, "Experimental Investigation of Soil Stabilization by using Coir Fiber, Fly Ash and CaCl₂," vol. 0904, no. 04, pp. 563–568, 2017.

- [11] A. M. A. Riza, F.V., Rahman, I.A. and Zaidi, “Possibility of lime as a stabilizer in compressed earth brick (CEB),” *Int. J. Adv. Sci. Eng. Inf. Technol.*, vol. 1(6), pp. 582-585., 2011.
- [12] E. A. Adam and P. J. Jones, “Thermophysical properties of stabilised soil building blocks,” *Int. J. Rock Mech. Min. Sci. Geomech. Abstr.*, vol. 32, no. 7, pp. 324–325, 1995.
- [13] L. K. Aggarwal, “Bagasse-Reinforced Cement Composites,” *Cem. Concr. Compos.*, vol. 17, pp. 101–112, 1995.
- [14] D. Maskell, A. Heath, and P. Walker, “Inorganic stabilisation methods for extruded earth masonry units,” *Constr. Build. Mater.*, vol. 71, pp. 602–609, 2014.
- [15] J. D. Sitton and B. A. Story, “Estimating Soil Classification Via Quantitative and Qualitative Field Testing for Use in Constructing Compressed Earth Blocks,” in *Procedia Engineering*, 2016.
- [16] R. A. Silva, E. Soares, D. V Oliveira, T. Miranda, N. M. Cristelo, and D. Leitão, “Mechanical characterisation of dry-stack masonry made of CEBs stabilised with alkaline activation,” *Constr. Build. Mater.*, vol. 75, pp. 349–358, 2015.
- [17] K. Heathcote, “Earthwall construction Compressive strength of cement stabilized pressed earth blocks,” *Build. Res. Inf.*, vol. 19, no. 2, pp. 101–105, 1991.
- [18] M. Segetin, K. Jayaraman, and X. Xu, “Harakeke reinforcement of soil-cement building materials: Manufacturability and properties,” *Build. Environ.*, vol. 42, no. 8, pp. 3066–3079, 2007.
- [19] Department of Census and Statistics Ministry of National Policies and Economic Affairs, “Survey on Construction Industries, Final Report,” 2015.
- [20] A. Guettala, H. Houari, B. Mezghiche, and R. Chebili, “DURABILITY OF LIME STABILIZED EARTH BLOCKS,” pp. 61–66, 2002.
- [21] Perera. A. Jayasinghe C, “Stabilized Soil Block Technology for Sri Lanka,”

in *Research for Industry, Engineering Research Unit, University of Moratuwa, Sri Lanka*, 1999, pp. 147–160.

- [22] S. N. Malkanthi and Perera A.A.D.A.J., “Durability of Compressed Stabilized Earth Blocks with Reduced Clay and Silt,” in *IOP Conference Series: Materials Science and Engineering*, 2018, vol. 431, no. 8.
- [23] B. V. Venkatarama Reddy and K. S. Jagadish, “Embodied energy of common and alternative building materials and technologies,” *Energy Build.*, 2003.
- [24] M. C. J. Delgado and I. C. Guerrero, “Earth building in Spain,” *Constr. Build. Mater.*, vol. 20, no. 9, pp. 679–690, 2006.
- [25] C. Jayasinghe, “Comparative Performance of Burnt Clay Bricks and Compressed Stabilized Earth Bricks and Blocks,” *Eng. J. Inst. Eng. Sri Lanka*, vol. 40, no. 2, p. 33, 2007.
- [26] I. Alam, A. Naseer, and A. A. Shah, “Economical stabilization of clay for earth buildings construction in rainy and flood prone areas,” *Constr. Build. Mater.*, vol. 77, pp. 154–159, 2015.
- [27] Rizna Azoor, .Rangika Halwathura and. Chameera Udawattha, “Manufacturing framework and Cost optimization for Building Mud concrete Blocks (MCB),” *Mobilization Mod. Technol. Sustain. Dev. Asia*, p. 112, 2016.
- [28] F. R. Arooz and R. U. Halwatura, “Case Studies in Construction Materials Mud-concrete block (MCB): mix design & durability characteristics,” *Case Stud. Constr. Mater.*, vol. 8, no. June 2017, pp. 39–50, 2018.
- [29] S. Sheweka, “Using mud bricks as a temporary solution for GaZa reconstruction,” *Energy Procedia*, vol. 6, pp. 236–240, 2011.
- [30] “Compressed Earth Blocks.” [Online]. Available: https://en.wikipedia.org/wiki/compressed_earth_block.
- [31] “Compressed Stabilised Earth Block.” [Online]. Available: http://www.earth-auroville.com/compressed_stabilised_earth_block_en.php. [Accessed: 19-Jul-2019].

- [32] Sri Lanka Standard Institution, "SPECIFICATION FOR COMPRESSED STABILIZED EARTH BLOCKS:Part 1 Requirements," Colombo, 2010.
- [33] Sri Lanka Standard Institution, "SPECIFICATION FOR COMPRESSED STABILIZED EARTH BLOCKS:Part 2 Test Methods," Colombo, 2010.
- [34] Sri Lanka Standard Institution, "SPECIFICATION FOR COMPRESSED EARTH BLOCKS:Part3 Guidelines on Production,Design andConstruction," Colombo.
- [35] H. D. Shrestha, "Standard Norms and Specification for CSEB Block."
- [36] V. Rigassi and CRATerre-EAG, *COMPRESSED EARTH BLOCKS: MANUAL OF PRODUCTION Volume I. Manual of production A Publication of the Deutsches Zentrum für Entwicklungstechnologien -GATE in: Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH in coordination with BASIN -1985, vol. I. 1985.*
- [37] D. J. Harris, "A quantitative approach to the assessment of the environmental impact of building materials," *Build. Environ.*, 1999.
- [38] A. Mujahid, A. Zaidi, F. V. Riza, and I. A. Rahman, "Preliminary Study of Compressed Stabilized Earth Brick (CSEB)," *Aust. J. Basic Appl. Sci.*, vol. 5, no. 9, pp. 6–12, 2011.
- [39] C. Jayasinghe, A. Perera, and S. West, "The Application of Hand Moulded Stabilised Earth Blocks for Rural Houses in Sri Lanka," *Proceeding EARTBUILD 2005 Conf. Univ. Sydney*, pp. 178-187 BT-Proceedings of Earth Build 2005, Int, 2005.
- [40] H. B. Nagaraj, M. V Sravan, T. G. Arun, and K. S. Jagadish, "Role of lime with cement in long-term strength of Compressed Stabilized Earth Blocks," *Int. J. Sustain. Built Environ.*, vol. 3, no. 1, pp. 54–61, 2014.
- [41] C. Udawattha and R. Halwatura, "Embodied energy of mud concrete block (MCB) versus brick and cement blocks," *Energy Build.*, vol. 126, pp. 28–35, 2016.
- [42] C. Udawattha and R. Halwatura, "Advances in Building Energy Research

- Thermal performance and structural cooling analysis of brick , cement block , and mud concrete block,” *Adv. Build. Energy Res.*, vol. 0, no. 0, pp. 1–14, 2016.
- [43] C. Jayasinghe, “Embodied energy of alternative building materials and their impact on life cycle cost parameters,” pp. 1–20.
- [44] “Compressed Stabilized Earth Blocks.” [Online]. Available: <https://houseconmin.gov.lk/compressed-stabilized-earth-blocks/>. [Accessed: 12-Jul-2019].
- [45] C. Jayasinghe, “Characteristics of Different Masonry Units Manufactured with Stabilized Earth,” *Int. Symp. Earthen Struct. Indian Inst. Sci. Bangalore*, pp. 252–258, 2007.
- [46] Perera A.A.D.A.J. and Jayasinghe C, “Strength characteristics and structural design methods for compressed earth block walls,” *Mason. Int.*, vol. 16(1), pp. 34–38, 2003.
- [47] H. B. Nagaraj, A. Rajesh, and M. V Sravan, “Influence of soil gradation , proportion and combination of admixtures on the properties and durability of CSEBs,” *Constr. Build. Mater.*, vol. 110, pp. 135–144, 2016.
- [48] R. Fitzmaurice, “Manual on Stabilized Soil Construction for Housing,” *United Nations Tech. Assist. Program. NewY ork*, 1958.
- [49] B. V. Venkatarama Reddy and M. S. Latha, “Influence of soil grading on the characteristics of cement stabilised soil compacts,” *Mater. Struct. Constr.*, vol. 47, no. 10, pp. 1633–1645, 2014.
- [50] C. Jayasinghe, “Stablized soil block technology for Sri Lanka,” *Proc. Annu. Symp. Eng. Res. Unit, Univ. Moratuwa, Sri Lanka*, pp. 147–160, 1999.
- [51] B. V. Venkatarama Reddy and P. Prasanna Kumar, “Cement stabilised rammed earth. Part A: Compaction characteristics and physical properties of compacted cement stabilised soils,” *Mater. Struct. Constr.*, vol. 44, no. 3, pp. 681–693, 2011.
- [52] B. V. Venkatarama Reddy and P. Prasanna Kumar, “Cement stabilised

- rammed earth. Part B: Compressive strength and stress-strain characteristics,” *Mater. Struct. Constr.*, vol. 44, no. 3, pp. 695–707, 2011.
- [53] M. C. N. Villamizar, V. S. Araque, C. A. R. Reyes, and R. S. Silva, “Effect of the addition of coal-ash and cassava peels on the engineering properties of compressed earth blocks,” *Constr. Build. Mater.*, vol. 36, pp. 276–286, 2012.
- [54] R. Alavéz-Ramírez, P. Montes-García, J. Martínez-Reyes, D. C. Altamirano-Juárez, and Y. Gochi-Ponce, “The use of sugarcane bagasse ash and lime to improve the durability and mechanical properties of compacted soil blocks,” *Constr. Build. Mater.*, vol. 34, pp. 296–305, 2012.
- [55] S. Guettala, “Properties of the Compressed-Stabilized Earth Brick Containing Cork Granules Journal of Earth Science and Climatic Properties of the Compressed-Stabilized Earth Brick Containing Cork Granules,” vol. 9, no. May, 2016.
- [56] J. C. Morel, A. Pkla, and P. Walker, “Compressive strength testing of compressed earth blocks,” *Constr. Build. Mater.*, vol. 21, no. 2, pp. 303–309, 2007.
- [57] B. V. Venkatarama. Reddy. and K. S. N. R. K.S. Jagadish, *Alternative Building Materials and Technologies*. New Delhi: New Age International (P) Limited, 2007.
- [58] H. Danso, D. B. Martinson, M. Ali, and J. B. Williams, “Physical, mechanical and durability properties of soil building blocks reinforced with natural fibres,” *Constr. Build. Mater.*, vol. 101, pp. 797–809, 2015.
- [59] J. C. Smith and C. Augarde, “Optimum water content tests for earthen construction materials,” *Proc. Inst. Civ. Eng. - Constr. Mater.*, vol. 167, no. 2, pp. 114–123, 2013.
- [60] S. H. Patil, “Research on Inter Locking Stabilised Soil Bricks (I.S.S.B.) a Literature Survey,” *Int. J. Res. Eng. Technol.*, vol. 05, no. 03, pp. 375–378, 2016.
- [61] F. G. Bell, *Engineering Treatment of Soils; Soil Stabilization*. E and EN

SPON, London, UK, 1993.

- [62] A. A. D. A. J. Perera. C. Jayasinghe, “Hand Moulded Cement Stabilized Soil Blocks as a Walling Material,” no. June, 2016.
- [63] A. Y. B. Anifowose, “Stabilisation of lateritic soils as a raw material for building blocks,” *Bull. Eng. Geol. Environ.*, vol. 58, no. 2, pp. 151–157, 2000.
- [64] P. S. S. Razvi, D. Nannaware, S. Bankar, A. Yadav, H. Shaikh, and C. Engineering, “STUDY ON STABILIZATION OF SOIL USING BURNT BRICK,” pp. 2757–2770, 2018.
- [65] İ. Türkmen, E. Ekinci, F. Kantarcı, and T. Sarıcı, “The mechanical and physical properties of unfired earth bricks stabilized with gypsum and Elazığ Ferrochrome slag,” *Int. J. Sustain. Built Environ.*, vol. 6, no. 2, pp. 565–573, 2017.
- [66] H. Danso, B. Martinson, M. Ali, and C. Mant, “Performance characteristics of enhanced soil blanks: a quantitative review - Supplementary tables,” *Build. Environ.*, pp. 1–11, 2014.
- [67] B. S. Waziri, Z. A. Lawan, and M. Mala, “Properties of Compressed Stabilized Earth Blocks (CSEB) For Low- Cost Housing Construction: A Preliminary Investigation,” *Int. J. Sustain. Constr. Eng. Technol.*, vol. 4, no. 2, pp. 2180–3242, 2013.
- [68] R. Bahar, M. Benazzoug, and S. Kenai, “Performance of compacted cement-stabilised soil,” *Cem. Concr. Compos.*, vol. 26, no. 7, pp. 811–820, 2004.
- [69] F. McGregor, A. Heath, E. Fodde, and A. Shea, “Conditions affecting the moisture buffering measurement performed on compressed earth blocks,” *Build. Environ.*, 2014.
- [70] American Society of Testing Materials, “ASTM D559, Wetting and Drying Compacted Soil-Cement Mixtures,” 1989.
- [71] John Atkinson, “Based on part of the Geotechnical reference package,” City University, London.

- [72] B. V. V. Reddy and S. S. Lokras, “Steam-cured stabilised soil blocks for masonry construction,” *Energy Build.*, 1998.
- [73] “BSI Standards Publication Guide to durability of buildings and building elements , products and Components,” 2015.
- [74] K. P. Arandara and C. Jayasinghe, “Identification of Durability Problems in Earth Buildings,” *Eng. J. Inst. Eng. Sri Lanka*, vol. XXXX, no. 04, pp. 14–21, 2007.
- [75] A. R. Shahiar. & B. B. M. S. Islam, M. I. Hossain, M.A. Islam, “Construction of Earthen house using CSEB: Bangladesh Perspective,” in *3rd International Conference on Advances in Civil Engineering, CUET, Chittagong, Bangladesh*.
- [76] K. K. G. K. D. Kariyawasam and C. Jayasinghe, “Cement stabilized rammed earth as a sustainable construction material,” *Constr. Build. Mater.*, vol. 105, pp. 519–527, 2016.
- [77] E. Obonyo, J. Exelbirt, and M. Baskaran, “Durability of Compressed Earth Bricks: Assessing Erosion Resistance Using the Modified Spray Testing,” pp. 3639–3649, 2010.
- [78] S. A. A. M. Fennis and J. C. Walraven, “Using particle packing technology for sustainable concrete mixture design,” *Heron*, vol. 57, no. 2, pp. 73–101, 2012.
- [79] M. Mangulkar and S. Jamkar, “Review of Particle Packing Theories Used For Concrete Mix Proportioning,” *Int. J. Sci. Eng. Res.*, vol. 4, no. 5, pp. 143–148, 2013.
- [80] M. Santhanam, “Particle packing theories and their application in concrete mixture proportioning : A review,” no. November, 2017.
- [81] V. Wong, K. Wai Chan, and A. Kwok Hung Kwan, “Applying Theories of Particle Packing and Rheology to Concrete for Sustainable Development,” *Organ. Technol. Manag. Constr. An Int. J.*, vol. 5, no. 2, pp. 844–851, 2013.
- [82] H. A. C. K. Hettiarachchi and W. K. Mampearachchi, “Validity of aggregate

- packing models in mixture design of interlocking concrete block pavers (ICBP),” *Road Mater. Pavement Des.*, vol. 0, no. 0, pp. 1–13, 2017.
- [83] T. C. Power, *The Properties of Fresh Concrete*. New York: Willey, 1968.
- [84] Building Materials & Technology Promotion Council Ministry of Housing & Urban Poverty Alleviation Government of India New Delhi, “TECHNO ECONOMIC FEASIBILITY REPORT ON FLYASH BRICKS.”
- [85] “Fly Ash, Building & Construction Material.” [Online]. Available: <http://cementationindia.com/fly-ash.html>. [Accessed: 11-Jul-2019].
- [86] A. A. Landman, “Aspects of solid-state chemistry of fly ash and ultramarine pigments,” no. December, 2004.
- [87] G. P. Makusa, “State of the Art Review Soil Stabilization Methods and Materials,” *J. STATE ART Rev.*, pp. 1–30, 2012.
- [88] A. A. Sofi, T. A. Sheikh, R. A. Wani, and A. Manzoor, “Cement stabilized earth blocks (CSEB): An economic and eco- friendly building material .,” *IOSR J. Mech. Civ. Eng.*, vol. 13, no. 6, pp. 6–11, 2016.
- [89] American Society of Testing Materials, “ASTM C618 Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use,” 2014.
- [90] Aakash Suresh Pawar, “Engineering Properties of Clay Bricks With Use of Fly Ash,” *Int. J. Res. Eng. Technol.*, vol. 03, no. 21, pp. 75–80, 2015.
- [91] A. Nataatmadja, “Development of low-cost fly ash bricks,” no. August, pp. 831–843, 2015.
- [92] S. Karthik, E. Ashok, P. Gowtham, G. Elango, D. Gokul, and S. Thangaraj, “Soil Stabilization By Using Fly Ash,” vol. 10, no. 6, pp. 20–26, 2014.
- [93] C. Egenti, J. M. Khatib, and D. A. Oloke, “High Carbon Fly ash and Soil in Shelled Compressed Earth Masonry Units,” no. December, 2015.
- [94] T. S. Shetty, K. B. Rao, and B. J. Pai, “A Feasibility Study on the Compressive Strength of Flyash and Lime Stabilized Laterite Soil Blocks,” *Int. J. Innov. Res. Sci. Eng. Technol.*, vol. 5, no. 9 (Spl), pp. 73–80, 2016.

- [95] F. G. Bell, "GEOLOGY Lime stabilization of clay minerals and soils," vol. 42, pp. 223–237, 1996.
- [96] L. Miqueleiz *et al.*, "The use of stabilised Spanish clay soil for sustainable construction materials," *Eng. Geol.*, vol. 133–134, pp. 9–15, 2012.
- [97] A. A. Raheem, D. Ph, O. A. Bello, B. Tech, O. A. Makinde, and B. Tech, "A Comparative Study of Cement and Lime Stabilized Lateritic Interlocking Blocks A Comparative Study of Cement and Lime Stabilized Lateritic Interlocking Blocks .," no. November, 2015.
- [98] A. . Ngowi, "Improving the traditional earth construction: a case study of Botswana," *Constr. Build. Mater.*, vol. 5(6), pp. 4–7, 1997.
- [99] E. G. Akpokodje, "The stabilization of some arid zone soils with cement and lime," *Q. J. Eng. Geol. Hydrogeol.*, vol. 18, no. 2, pp. 173–180, 1985.
- [100] O. Izemmouren and S. Guettala, "Mechanical Properties and Durability of Lime and Natural Pozzolana Stabilized Steam-Cured Compressed Earth Block Bricks," *Geotech. Geol. Eng.*, vol. 33, no. 5, pp. 1321–1333, 2015.
- [101] J. A. Bogas, M. Silva, and G. Gomes, "Unstabilized and stabilized compressed earth blocks with partial incorporation of recycled aggregates of recycled aggregates," *Int. J. Archit. Herit.*, vol. 00, no. 00, pp. 1–16, 2018.
- [102] U. S. Environmental Protection Agency, "A Citizen ' s Guide to Soil Washing," pp. 1–4, 1996.
- [103] D. A. Genrich, "Isolation and characterization of sand- , silt- , and clay-size fractions of soils," 1972.
- [104] M. A. Y. June, "THE SEPARATION OF CLAY MINERALS BY CONTINUOUS PARTICLES ELECTROPHORESIS," vol. 54, no. 1966, pp. 937–942, 1969.
- [105] M. J. Mann and E. Groenendijk, "First full-scale soil washing project in the USA," *Environ. Prog.*, vol. 15, no. 2, pp. 108–111, 1996.
- [106] L. D. Baver, *Soil Physics*, 3rd ed. New York : Wiley, 1956.

- [107] Kata L. Reshel and James M. Ebeling World Aquatic Society, “Screening and Evaluation of Alum and Polymer Combinations as Coagulation / Flocculation Aids to Treat Effluents from Intensive Aquaculture Systems,” vol. 37, no. 2, pp. 191–199, 2006.
- [108] M. A. Al, M. Y. Al Ani, and A. M. S. Shihab, “Journal of Environmental Science and Health . Part A : Economical evaluation of using polymers with alum for turbidity removal in water treatment,” vol. 1204, no. June, 2016.
- [109] S. Chapter, C. Coagulant, and F. P. Fundamentals, “Coagulation and Flocculation,” pp. 1–6.
- [110] M. A. P. Reali, “THE USE OF POLYMER AS FLOTATION AID IN WATER TREATMENT,” vol. 4, no. 2, pp. 159–164.
- [111] M. Dondi, G. Guarini, M. Raimondo, and C. Zanelli, “Recycling PC-TV waste glass in clay bricks and roof tiles,” vol. 29, pp. 1945–1951, 2009.
- [112] I. Demir and M. Orhan, “Reuse of waste bricks in the production line,” vol. 1323, no. November, 2017.
- [113] R. R. Menezes, H. S. Ferreira, G. A. Neves, H. D. L. Lira, and H. C. Ferreira, “Use of granite sawing wastes in the production of ceramic bricks and tiles,” vol. 25, pp. 1149–1158, 2005.
- [114] A. Olgun, Y. Erdogan, Y. Ayhan, and B. Zeybek, “Development of ceramic tiles from coal fly ash and tincal ore waste,” vol. 31, pp. 153–158, 2005.
- [115] S. Kurama, A. Kara, and H. Kurama, “Investigation of borax waste behaviour in tile production,” vol. 27, pp. 1715–1720, 2007.
- [116] A. E. Lavat, M. A. Trezza, and M. Poggi, “Characterization of ceramic roof tile wastes as pozzolanic admixture,” *Waste Manag.*, vol. 29, no. 5, pp. 1666–1674, 2009.
- [117] G. T. Factory, “Manufacturing and Characterization of Roof Tiles a Mixture of Tile Waste and Coal Fly Ash Kiremit Atığı ve Kömür Uçucu Külü Karışımından Çatı Kiremiti Üretimi ve Karakterizasyonu,” pp. 1–6, 2017.

- [118] D. Ingunza, M. Del Pilar, and L. Andressa, “Use of Sewage Sludge as Raw Material in the Manufacture of Roofs,” no. Cmes, pp. 31–33, 2015.
- [119] R. Gaggino, M. J. Positieri, P. Irico, J. Kreiker, R. Arguello, and M. P. A. Sánchez, “Ecological Roofing Tiles Made with Rubber and Plastic Wastes,” *Adv. Mater. Res.*, vol. 844, pp. 458–461, 2013.
- [120] F. P. E. Kallas, O. R. K. Montedo, and M. D. de M. Innocentini, “Use of Nickel Slag as Raw Material for Roof Tiles Production,” *Mater. Sci. Forum*, vol. 912, pp. 212–217, 2018.
- [121] J. Sutas, A. Mana, and L. Pitak, “Effect of Rice Husk and Rice Husk Ash to Properties of Bricks,” *Procedia Eng.*, vol. 32, pp. 1061–1067, 2012.
- [122] G. H. M. J. S. De Silva and M. L. C. Surangi, “Effect of waste rice husk ash on structural , thermal and run-off properties of clay roof tiles,” *Constr. Build. Mater.*, vol. 154, pp. 251–257, 2017.
- [123] G. H. M. J. S. De Silva and B. V. A. Perera, “E f f ect of waste rice husk ash (RHA) on structural , thermal and acoustic properties of fi red clay bricks,” *J. Build. Eng.*, vol. 18, no. September 2017, pp. 252–259, 2018.
- [124] G. H. M. J. S. De Silva and M. P. D. P. Mallwattha, “Strength , durability , thermal and run-off properties of fired clay roof tiles incorporated with ceramic sludge,” *Constr. Build. Mater.*, vol. 179, pp. 390–399, 2018.
- [125] M. A. Rahman, “Properties of clay-sand-rice husk ash mixed bricks,” *Internatlonal/ J. Cem. Compos. Light. Concr.*, vol. 9, no. 2, pp. 105–108, 1987.
- [126] D. Tonnayopas and P. Tekasakul, “Effects of Rice Husk Ash on Characteristics of Lightweight Clay Brick,” in *Technology and Innovation for Sustainable Development Conference (TISD2008)*, Faculty of Engineering, Khon Kaen University, Thailand, 2014, no. January 2008.
- [127] S. Adikari. GLM Ariyadasa, SSK Muthurathne, “Investigating the Physical , Mechanical and Thermal Properties of Common Roofing Materials in Sri Lanka,” no. December, 2015.

- [128] Bureau of Ceylon, *SLS 2: Specification for clay roofing tiles*. Colombo, 1975.
- [129] “How Bricks Are Categorized.” [Online]. Available:
<https://www.thebalancesmb.com/bricks-types-uses-and-advantages-844819>.
[Accessed: 19-Jul-2019].
- [130] N. Phonphuak and P. Chindapasirt, *Types of waste, properties, and durability of pore-forming waste-based fired masonry bricks*. Elsevier Ltd, 2014.
- [131] J. Ingham, “Bricks, terracotta and other ceramics,” *Geomaterials Under Microsc.*, pp. 163–170, 2013.
- [132] F. M. Fernandes, *Clay bricks*. Elsevier, 2018.
- [133] Bureau of Ceylon, *SLS 39: SPECIFICATION FOR COMMON BURNT CLAY BUILDING BRICKS*. Colombo, 1978.
- [134] American Society of Testing Materials, “ASTM C117 Standard Test Method for Materials Finer than 75- μ m (No . 200) Sieve in Mineral,” *ASTM Stand. Guid.*, vol. 04, no. 200, pp. 1–4, 2003.
- [135] American Society of Testing Materials, *ASTM D4318 Standard Test Methods for Liquid Limit. Plastic Limit, and Plasticity Index of Soils*. 2010.
- [136] B. V. V. Reddy, *Stabilised soil blocks for structural masonry in earth construction*. Woodhead Publishing Limited, 2012.
- [137] Sri Lanka Standard Institution, “SPECIFICATION FOR CEMENT BLOCKS: Part 1- Requirements,” Colombo, 1989.