

LIST OF TABLES

Table	PAGE
2.1 Approximate HVL for various materials when radiation is from a gamma source	25
4.1 Chemical compositions of rice husk ash sintered at 1100 °C	38
4.2 Chemical compositions, thickness, density and molar volume of barium-borate-RHA glasses	38
4.3 Chemical compositions, refractive index, molar refraction and molar electronic polarizability of barium-borate-RHA glass system	39
4.4 Theoretical and experimental mass attenuation coefficients (cm ² /g) of barium-borate-RHA glass system at 662 keV γ -rays	42
4.5 Theoretical and experimental of total atomic cross-section, total electronic cross-section and effective atomic number of barium-borate-RHA glass system at 662 keV γ -rays	43
4.6 The half value layers of barium-borate-RHA glass system at 662 keV γ -rays	45