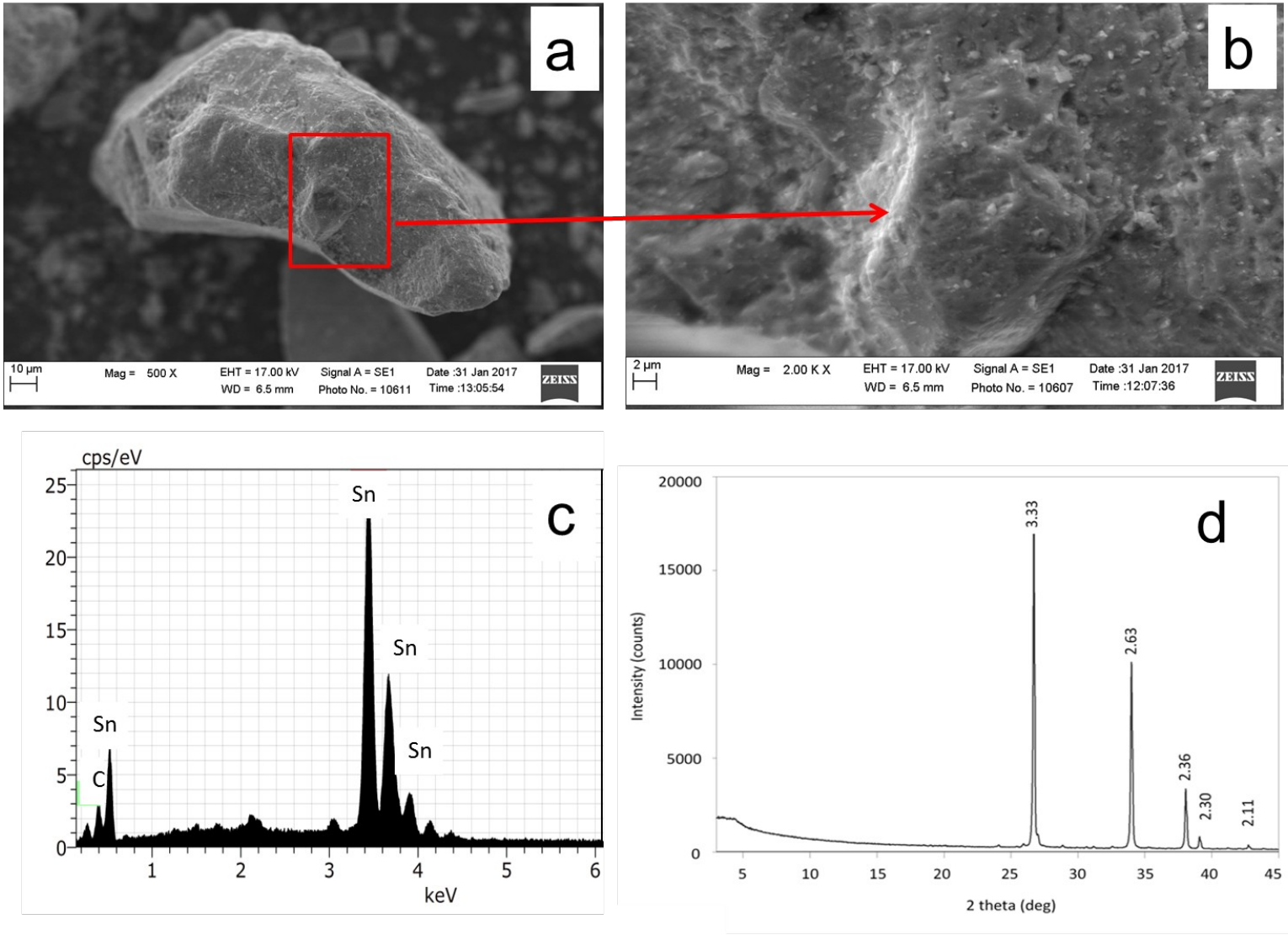

FIGURE 1 Scanning electron micrograph showing cassiterite morphological features: (a) cassiterite mineral with fresh, clean and smooth surfaces, (b) close up of a specified grain spot in figure a to show crystal growth, (c) EDX spectra show elemental surface composition of caasierite consisting of only Sn, (d) X-ray diffraction parttern of cassiterite showed very sharp diffragtogram peaks indicating very well crystal structure. Note: XRD d-spacing in Å

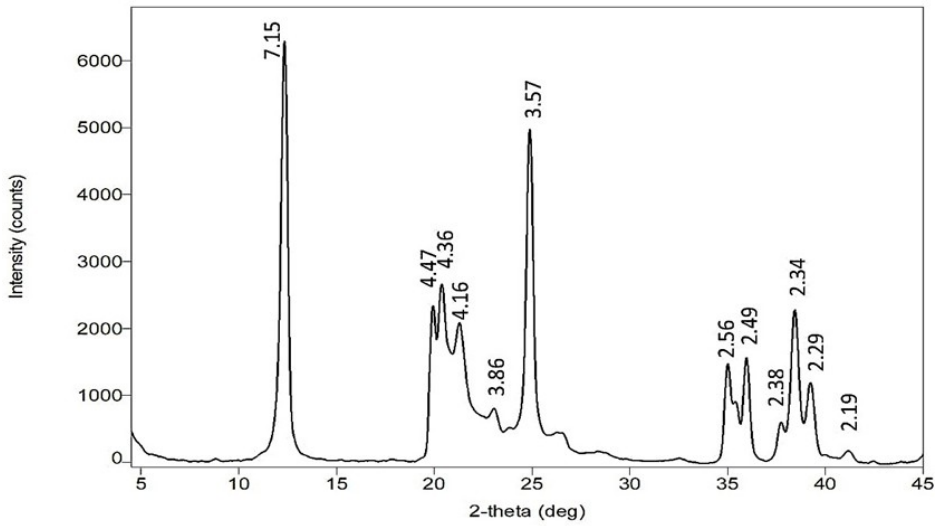

FIGURE 2 X-ray diffraction parttern of whitish clay spoil consisiting of mainly kaolinite mineral with small amount of goethite. Note: Peak d-spacing in Å

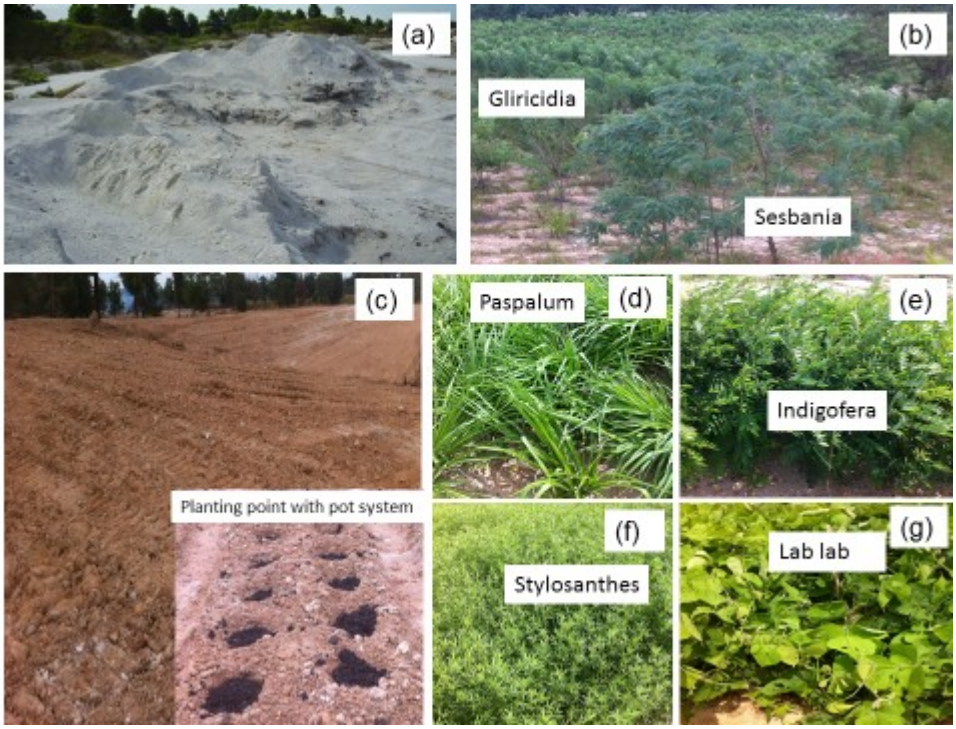

FIGURE 3 Success reclamation of tailing and spoil in post-tin mining areas using grass and legumes in Bangka Belitung. **(a)** mounds of sandy tailings which are idle land before reclamation, **(b)** success relamation of sandy tailing showing Gliricidia and Sesbania legumes as adaptive crops, **(c)** spoil (mixture of topsoil and sandy tailing) before reclamation with the insert picture of a pot planting point filled with compost, (d) success reclamation of spoil showing robust growth of paspalum grass, (e) dense growth of indigofera, (f) dense growth of stylosanthes, and (g) good growth of lab lab legumes. Photograph from field experiment being tested.