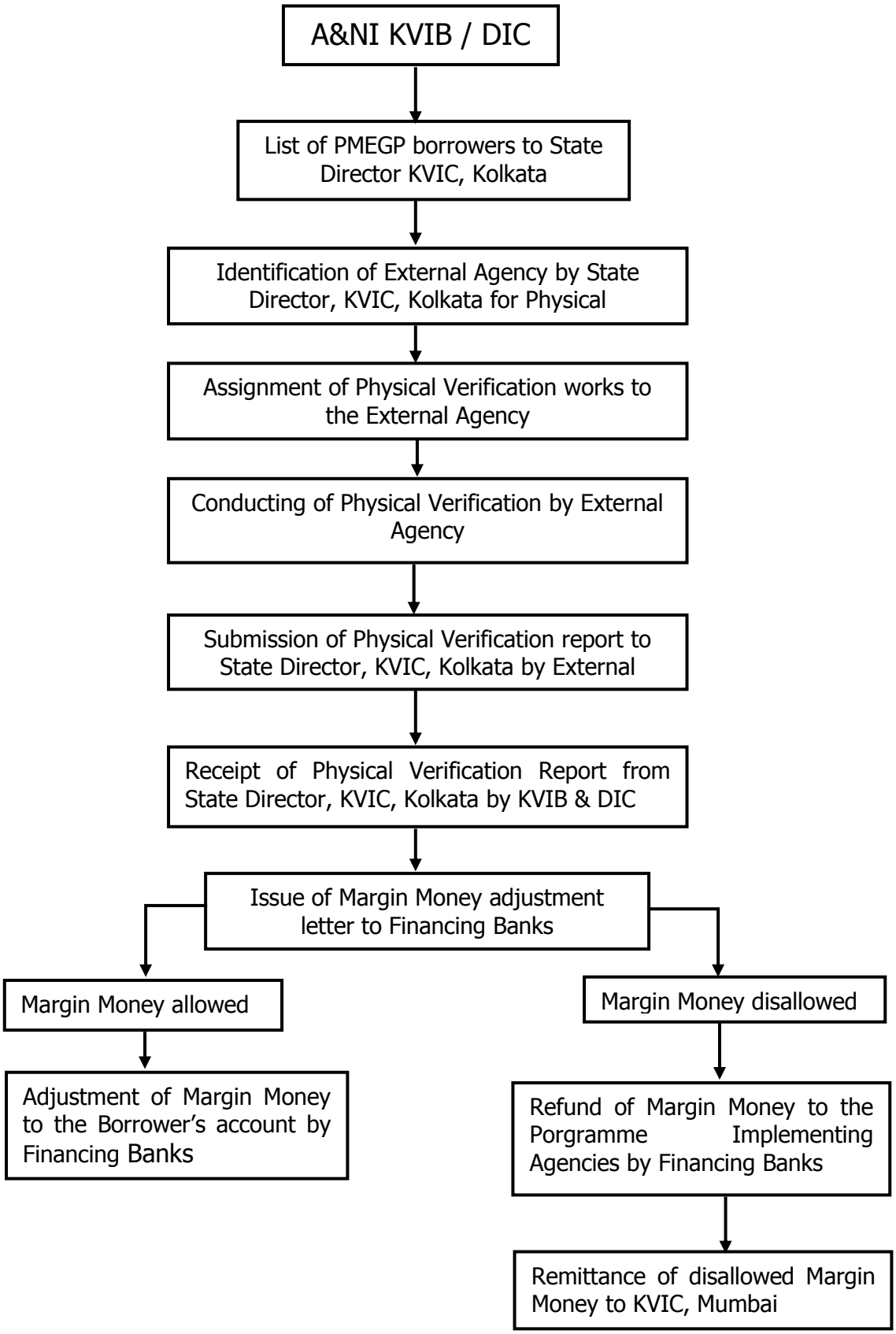PHYSICAL VERIFICATION