	Table 1											
SI. No.	Test case ID	Test scenario	Test Steps	Prerequisites if any	Test data	Expected/Intended Results	Actual Results	Test Status - Pass/Fail				
1 TC001		Garbage Detection on Street	Fly the drone over designated street.	Pre-configured flight path for drone	Drone images of street with visible garbage	Garbage detected with >99% accuracy.	Garbage detected with 99.99% accuracy.	Pass				
	T0004		Capture images and send data to analysis system.									
	10001		Process images using TensorFlow model.									
			Classify detected objects.									
2 TC002		Pothole Detection on Roads	Drone captures images over roads.	Clear weather conditions	Drone images showing potholes	Large potholes detected accurately with classification by size.	Large potholes detected with 99.96% accuracy.	Pass				
	T0000		Analyze images for pothole detection.									
	10002		Classify detected potholes by size.									
			Notify concern if large potholes found.									
3 TC003		Clean Road Identification	Drone flies along a clean road.	Drone calibration for clear imaging	Clean road images	System recognizes clean roads without misclassification of minor objects.	Road classified as clean with 99.71% accuracy.	Pass				
	TC003		Capture images and analyze for garbage or potholes.									
			Confirm classification as a clean road.									
4 TC004		Small Pothole Detection and Filtering	Capture images on roads with small potholes.	Weather suitable for drone flying	Images with small potholes	Small potholes detected and correctly filtered out, no notification triggered.	Small potholes detected; no notification sent.	Pass				
	TC004		Analyze and classify potholes.									
			Verify that notification is not sent for small potholes									
5 TC005		Less Garbage Detection and Filtering	Drone flies over lightly littered street.	Minimum system processing load	Images with <25% garbage coverage	Garbage detected but falls below threshold; no notification sent to cleaning personnel.	Detected <25% garbage, no notification triggered.	Pass				
	TC005		Analyze garbage percentage.									
			Confirm that notification is not sent for less garbage (<25% coverage).									