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| Sl. No. | **Tasks** |
| 1. | Collection of water sample for monitoring water health |
| 2. | Integration of on board water quality sensors and vessel propulsion system. |
| 3. | Reporting of floating waste, dissolved and undissolved contaminants ,water temperature distributions. |
| 4. | Assimilation of SONAR Rangers for Bathymetry. |
| 5. | Data Collection for Bathymetry. |
| 6. | Interfacing LIDAR & marine radar for collision avoidance. |
| 7. | Combining multi-spectral imaging sensors with 360 cameras for detailed analysis. |
| 8. | Integration of image processing models to detect water quality degradation. |
| 9. | Establishing RF Wireless communication for real time data collection. |
| 10. | River Navigation using NAVIC. |
| 11. | Interfacing RF devices and satellite navigation units with Artix7-100T. |