

## Adsorbent regeneration for Indian Navy

**SURACSH at its best in creating substantial cost effective solutions!**

Carbon monoxide (CO) is a poisonous, colorless, odorless and tasteless gas. CO being an odorless gas possess high risk even at 10 ppm ranges. Carbon monoxide (CO) removal from enclosed human (confined) spaces possess a great threat to human life. CO has been removed from the enclosed spaces using palladium impregnated carbons. Palladium being a highly expensive noble metal, the impregnated filters has to be regenerated to curb the financial burden of using such filters.



Indian Navy wanted to regenerate the used CO filters which they were using in their navel submarines. It was a challenge for them in terms of reducing the operational cost. As the specialty filter media expert, and owing a full-fledged state of the art R&D, SURACSH took up the project of regeneration of the used CO filters. We in association with the DRDO (Defense Research and Development Organization) were successful in developing the proprietary procedure to extract the used noble metal and to correct the oxidation state to a catalytic state. Further SURACSH was successful in making a filter with same performance as the new filter. As a result, the customer got the product with substantial saving on national resources.