**R & D SCHEMES (PORT SECTOR) COMPLETED DURING LAST FEW YEARS**

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| Sl  No. | Name of the scheme | Cost  (Rs. In  lakh) | Project  proponent | Date of  completion |
| 1 | Interaction of ships with basin entrance and approach channels. | 32.77 | IIT, Chennai | June 2012 |
| 2 | FRP Laminated Sandwich panels for bridges/walkways of Marine Structures. | 24.43 | IIT, Roorkee | Sep 2014 |
| 3 | Durability and Strength Enhancement of Reinforced Concrete Columns using  Unplasticized Poly Vinyl Chloride (UPVC)Tubes in Ports, Harbours, and Off-Shore Structures | 20.28 | IIT, Roorkee | July, 2015 |
| 4 | Geo-Hydro-Morphological studies of three tributaries and their impact on sedimentation with respect to some critical stretches in Hooghly River and Estuary. | 46.43 | Kolkata Port Trust | Nov 2015 |
| 5 | Use of Dredged Material during Maintenance Dredging in the Hugli Estuary. | 30.00 | Kolkata Port | March 2016 |
| 6 | Implementation of Pilot Project in connection with Short-Term and Long-Term measures for improvement of the draft in the Hooghly estuary by WAPCOS ltd. in association with HR Walling Ford, UK, and CWPRS, Pune. | 910.00 | Kolkata Port | June 2016 |
| 7 | Studies on siltation and optimal ameliorative measures at Cochin Port. | 1073.00 | Cochin Port | March 2017 |
| 8 | Comprehensive Analysis of Siltation Behaviour. | 90.77 | Deendayal Port | Nov, 2019 |
| 9 | Evaluation of Central Sector Scheme on Research & Development Scheme for Port Sector | 11.80 | National Productivity Council | July 2021 |
| 10 | Preparation of Guidelines for the use of Geosynthetics in ports, coasts, and waterways. | 11.80 | IIT Madras | Nov, 2021 |