



### Reports Submitted

- Compliance Report on EIA & EMP study for Chettinad International Bulk Terminal Private Limited (CIBTPL) in Kamarajar Port Limited (KPL), Chennai.
- EIA & EMP studies for expansion of existing jetty and storage terminal capacity at Gujarat Chemical Port Terminal Company Limited (GCPTCL) at GIDC, Dahej.
- Oceanographic studies, Bathymetry and Topography surveys for setting up 100 MLD desalination plant near Jodiya, Gujarat for JWDL.
- Modelling and Marine EIA studies for the construction of high-level bridge connecting Pulicat Lake road to Pasayavaram Village for Highways Department, Government of Tamil Nadu.
- Addendum report for amendment in Environmental & CRZ clearance for Lighterage operation at captive port in Parangipettai, Cuddalore, for IL&FS Tamil Nadu Power Company Ltd, Chennai.
- Environmental audit report for the proposed jetty extension project of Ultratech Cements Limited, Gujarat Cement Works, Gujarat.

### Kori Creek

The Kori Creek is the largest tidal creek system in our country. The southern segment of the creek system belonging to India is a part of the Indus River Delta most of which lies in Sindh region of Pakistan. It forms the nested creek system of Greater Rann of Kutch falling east of the Sir Creek which runs as the boundary between India and Pakistan. It has a 96 km strip of water having dispute between India and Pakistan, claimed by India as a part of the Indian Rann of Kutch marshy lands. The Sir Creek, laying around 33 km northwest of Kori Creek, is also a disputed area between India and Pakistan. The creek fringes into many tidal flats and channels with mangrove beds over the uninhabited marshy lands. During the monsoon season between June and September, the creek floods along its banks and envelops the low-lying salty mudflats around it. Over the ensuing winter season, it becomes an ideal home for flamingos and other migratory birds.

*With the reputation of consultancy works accomplished across all over the coastal segment of Indian sub-continent, Indomer is presently working on many projects at Kori creek close to international border for the development of port terminals, salt pans and seawater intake/outfalls. These works are being carried out with the permission from Border Security force (BSF). Indomer's untiring team staying near international border makes valuable long-term data collection and using modelling study has brought out the tidal circulation pattern of the entire Kori creek.*

### Projects in progress

- Seismic, Side Scan, Oceanographic Surveys and EIA study for setting up 100 MLD Desalination Plant near Dahej, Gujarat for Gujarat Industrial Development Corporation (GIDC).
- Bathymetry studies in the proximity of sea between Mandvi to Suthari area of Kutch, Gujarat.
- Bathymetry, Seismic and Side Scan surveys and Modelling studies for finalizing the location of intake and outfall for setting up Desalination plant at Kuthiraimozhi.
- Marine EIA study for disposal of treated industrial effluent into the sea from Divi's Laboratories Limited, Nellore.
- Environmental Impact Assessment study for setting up 60 MLD Desalination plant at Mullakadu for SIPCOT, Tuticorin.
- Environmental Impact Assessment study and EC grant process for revised cargo handling at Gopalpur port.
- Single beam and multibeam Bathymetry surveys and dredging monitoring surveys in the Harbour Basin at VOC Port for V. O. Chidambaranar Port Trust, Tuticorin.
- Pre-Feasibility and Techno-economic feasibility studies, Detailed Project Report and EIA study for the development of Fishing Harbour at Arcotthurai, Nagapattinam District, Tamilnadu.
- Bathymetry survey and field data collection for the construction of 200 m jetty and approach at Okha Port for Gujarat Maritime Board, Gujarat.
- Bathymetry survey and field data collection for development of Eastern Breakwater and Jetty at Porbandar Port for Gujarat Maritime Board, Gujarat.

### Clearance obtained

- CRZ & Environmental Clearance for development of the facilities envisaged in the Port Master Plan (Phase III) of M/s Kamarajar Port Limited.

### Meetings Attended

- CRZ Clearance meeting at MoEF&CC for the construction of High-Level Bridge connecting Pulicat Lake road to Pasayavaram village for Highways Department, Government of Tamil Nadu.
- State CRZ Clearance Meeting at Karnataka State Coastal Zone Management Authority (KSCZMA) for setting up 70 MLD Desalination Plant for Mangalore Refinery and Petrochemicals Limited, Mangalore, Karnataka.
- Meeting for issue of ToR at MoEF&CC for the Raigad Cement Bulk Terminal of ACL Berthing Jetty at Amba river, Alibag Taluka, Maharashtra by M/S Adani Cementation Limited.

### Indomer is proud to bring you a series of article on 'Climate Change'

Authored by [Dr. Sukumar Devotta](mailto:sdevotta@gmail.com), Former Director, National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur



### What is Climate Change?

Climate change is not just about Earth's increasing global average temperature but includes the climate effects caused by global warming. Global warming refers to the rise in global average temperature over Earth's surface and is mainly caused by increasing concentrations of greenhouse gases (GHGs) in the atmosphere. From the historical temperature records, our Earth's average temperature is found to have risen by about 1.0°C over the "pre-industrial" average and is further projected to rise another 0.3 to 4.8°C over the next century or so. Still, some changes more pronounced over a shorter time period e.g. 2016 was warmer by 0.8°C and 2017 by 0.68°C.

Small changes in the average temperature of the planet can cause potentially dangerous shifts in climate and weather. Many places have experienced drastic changes in rainfall, resulting in frequent floods, droughts, or intense rain, as well as more severe heat waves. Oceans and glaciers are going through some big changes – oceans are warming and becoming more acidic, ice caps are melting and sea levels are rising.

Climate change refers to significant long-term changes in the expected patterns of average weather of a region (or the whole Earth) over a significant period of time. In other words, climate change includes abnormal variations in temperature, precipitation or wind patterns, among other effects, that occur over several decades or longer. It is influenced by the oceans, land surfaces and ice sheets, which together with the atmosphere form the 'climate system'.

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