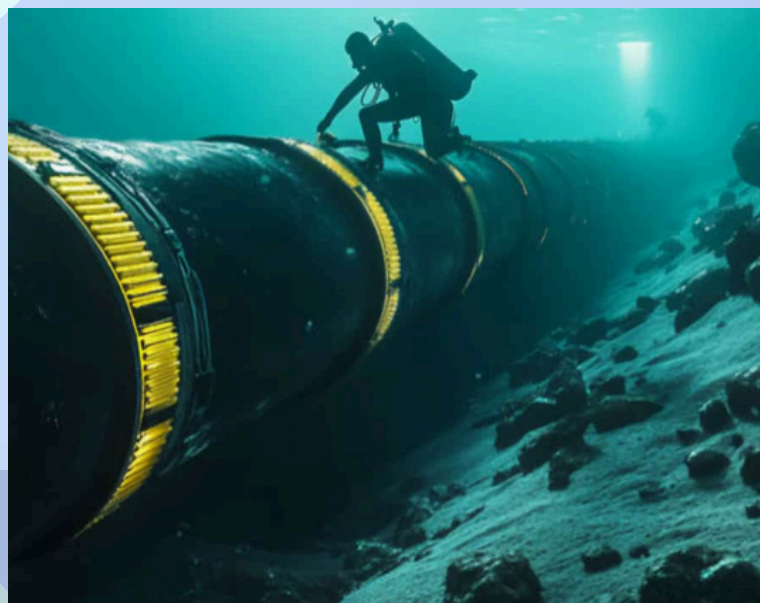


COMPANY PROFILE

Our commitment to quality, integrity, and customer satisfaction is evident in every aspect of our operations.





Hydrotech Systems Pvt. Ltd.

**Unit No. 103, 1 Floor, "Rashmi" Anshumali CHS Ltd., Plot No. 67,
Gokhale Road, Dahanukarwadi, Kandivili (W), Mumbai 400 067, INDIA.
Tel. :91-98194 55757; 97697 26757; E-mail: projects@hydrotechsystems.com
Website: www.hydrotechsystems.com**

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Genesis

Hydrotech Systems Pvt. Ltd. provides integrated design, engineering, procurement, construction and project management services for off shore emplacements including inspection, maintenance, repairs and all underwater services. The Company has specialized in the Ocean Engineering and Offshore Engineering with impetus on underwater operations. The operations are spread all along the coastal line of India.

Established in January 2004, the Company has already executed many projects of unique nature under trying situations within the project schedule. The Team members at Hydrotech have the track record of handling vital marine/on-shore installations successfully in the country with more than 26 unique offshore projects to their credit. Everyone at Hydrotech firmly believes that “planning customer success begins with people”. In line with this belief, everyone at Hydrotech strives for customer relationships that enable them to be more efficient, effective and stay ahead of customer needs. These close relationships pay off for customers time and time again.

The ‘Hydrotech’ Team has the reputation and recognition for their proficiency in approach to any project, cost control measures, adherence to the project schedule and quality consciousness. The expanding list of satisfied clients reflects Hydrotech’s ability to execute challenging projects, against all odds. The repeat orders from the present clientele stand testimony to this aspect.

Difficult weather or tough terrain has been no deterrent to Hydrotech Team which has delivered consistently and brought accolades to the Company. Their ability to manage operations in diverse application areas coupled with the track record in mobilizing resources, makes Hydrotech the preferred agency for critical and sensitive projects.

The sophisticated equipment owned by Hydrotech gives them a competitive edge over the competitors, while the efficient project task force ensures minimal downtime on all projects. The multi-skilled and highly adaptable workforce is capable of handling multiple complex projects.

In a short span of time, Hydrotech has emerged as a leading organization to provide “concept to commissioning” services to various industries and institutions in the field of seawater intake system and marine outfalls throughout the west and east coast of the country. The Company’s position as an exemplary project Company can be accredited to the high standards in health, safety, environment and quality, coupled with a track record of timely completion of projects.

Recently Hydrotech Systems Pvt. Ltd. has entered into a Strategic Alliance with Indomer Coastal Hydraulics (P) Ltd. to provide Lump Sum Turn Key (LSTK) project services for Land & Marine emplacements in the fields of On- shore Engineering, Off-shore Engineering, and Ocean Engineering to the Clientele.

This Strategic Alliance is the outcome of the pursuit of growth and progress by the 2 Organizations, propelled by passion for intellectual excellence. Indomer and Hydrotech are functioning in a technological sphere forming critical applications for industries. For successful establishment of industries and their optimal performance, these critical applications should be formulated by right engineering intellect. By joining hands, the 2 Organizations have joined forces, to complement and support each other in areas of Research, Technical Knowhow & Resources, and Engineering Intellect & Support. In the process, the 2 Organizations would be broadening and expanding their scope of services for the clientele.

With years of experience and a client-centric approach, Hydrotech Systems Pvt. Ltd. has built a reputation for Providing reliable, customized solutions that support both operational efficiency and sustainability. The company's team of skilled engineers and consultants work closely with clients to design and implement systems that maximize water reuse, minimize waste, and reduce operational costs, ultimately driving long-term environmental and economic benefits for its customers.

Leadership

Rajeev Govindan the Director of Hydrotech Systems Pvt Ltd brings a dynamic blend of engineering expertise and entrepreneurial leadership to the company .With a strong foundation in Civil engineering and a vision for innovative solutions, he co-founded Hydrotech Systems in 2009. Rajeev has been instrumental in driving the Company's growth and success, particularly in the offshore engineering and underwater services sectors.

His Leadership and strategic direction have allowed Hydrotech Systems to Successfully execute numerous large-scale projects, specializing in offshore pipeline installations,marine surveys, and environmental assessments. Rajeev's Keen insight into both technical and operational aspects of the business has enabled the company to deliverworld -class solutions to clients across various industries.

With a passion for Excellence and a commitment to sustainable practices, Rajeev Continues to lead Hydrotech Systems Pvt Ltd in its pursuit of innovation and high-quality service delivery, making significant strides in the marine and offshore engineering industry.

MISSION

- **Provide Sustainable solution**
- **Deliver High quality Service**
- **Customer Centric approach**
- **Foster a culture of excellence**

At Hydrotech Systems Pvt. Ltd our mission is to provide innovative, sustainable, and reliable engineering solutions for the marine and offshore sectors. We are committed to delivering high-quality services that address the complex challenges of offshore pipeline installations, marine outfall systems, and environmental protection. Through cutting-edge technology, expert knowledge, and a dedicated team, we strive to exceed client expectations, promote environmental sustainability, and contribute to the advancement of offshore engineering infrastructure globally.

vision

Planning for customer success begins with people. Hydrotech strives for customer relationships that enable us to be more efficient, effective and stay ahead of customer needs. The close relationships pay customers time and time again.

Company Capabilities & Services Offered

- ☒ Laying of Submarine pipelines
- ☒ Maintenance of submarine pipelines
- ☒ Diving, underwater repairs, barge positioning
- ☒ Anchor handling, Marker buoy installations
- ☒ SBM / MBM operation and maintenance services

- ☒ Cross country pipeline installation (PE / GRP / DI)
- ☒ Geo tube / geo membrane installation
- ☒ AS LAID and AS BUILT surveys Design Engineering and Consultancy for
- ☒ Off-shore / On-shore Pipelines & Emplacements
- ☒ Design & rehabilitation of dam structures
- ☒ Salvage Operations

- ☒ Marine EIA
- ☒ Wave, current, tide measurements
- ☒ Bathymetry Survey
- ☒ Soil Investigations
- ☒ Hydro Dynamic modeling studies
- ☒ Location & design of sea water intakes
- ☒ Location & design of marine outfalls

- ☒ Post-laying Burial of Pipelines
- ☒ Underwater Trenching in Sea / River / Estuary
- ☒ Dredging in Waterways / Channels
- ☒ Underwater Rock Excavation / Blasting Work
- ☒ Construction of Breakwater, Tetrapods, and Cofferdams

- ☒ Structural Fabrication and Erection Work for Industrial Plants
- ☒ Piperack Construction, with all types of Mechanical Fabrication and Erection jobs

Key Personnel

Sr no	Name	Designation
1.	Mr. Rajeev Govindan	Director
2.	Mrs. Priya Rajeev	Director
3.	Mr. Vasudeo N. Herwadkar	Consultant-Contracts/Admin/Mtls
s	Mr. Tony Antony	Project Manager
5.	Mr. Vithal N. Surve	Consultant -Finance Manager
6.	Mr. T. Mohanasundaran	Accounts & office Admin Project
7.	Mr. Narayan Singh	Project Engineer
8.	Mr. V. Bucchi Reddy	Civil Engineer
9.	Mr. Satyendra Kumar Thakur	Site -in- Charge

Technical Associates / Consultants

Sr. No	Name	Designation
1.	Dr .P. Chandramohan B.E. (civil Engineering) D.O.E (ocean engineering) M.E (Hydraulic engineering) Ph.D (Ocean Engineering)	Managing Director Indomer Coastal Hydraulics (p) Ltd.
2	Mr. J. Guru Prasath B.E (Marine) M.S. Ph.D (Ocean Engineering)	Director Indomer Coastal Hydraulics (p) Ltd.
3.	Sameer Ajit Dhavale B.E. (civil Engineering)	Design Head

ISO CERTIFICATE

CERTIFICATE

Management system as per
ISO 9001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

HYDROTECH SYSTEMS PVT. LTD.
Unit No.103, 1st Floor, Rashmi - Anshumali CHS Ltd.,
Plot No. 67, Gokhale Road, Dahanukarwadi,
Kandivali (West), Mumbai - 400 067,
Maharashtra,
India



operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

**Design, Engineering, Procurement, Dispatch at Site, Construction,
Site Fabrication, Installation, Testing & Commissioning, Periodic Maintenance of
Subsea Pipelines Works and Associated Marine Work.**

Certificate Registration No.44 100 23394027
Audit Report No.2.5-11262/2023

Valid from 16.05.2023
Valid until 15.05.2026
Initial certification 16.05.2023

Certification Body
at TÜV NORD CERT GmbH

Mumbai, 16.05.2023

TÜV NORD CERT GmbH

Am TÜV 1

45307 Essen

www.tuev-nord-cert.com

TUV India Pvt. Ltd., 801, Raheja Plaza – 1, L.B.S. Marg,

Ghatkopar (W), Mumbai - 400 086, India www.tuv-nord.com/in



Indomer – Hydrotech Association



Date: 8 September 2021

TO WHOMSOEVER IT MAY CONCERN

It is a great pleasure to inform that **Hydrotech Systems Pvt. Ltd.** has entered into a Strategic Alliance with **Indomer Coastal Hydraulics (P) Ltd.** to provide Lump Sum Turnkey project services for Land & Marine emplacements in the fields of On-shore Engineering, Off-shore Engineering, and Ocean Engineering to the Clientele.

Indomer Coastal Hydraulics (P) Ltd. is the leading Oceanographic Consultancy Company of India, backed by scientific knowledge base, offering full-fledged multi-disciplinary oceanographic services under one roof. Paramount objective of Indomer is to impart the Ocean Science to user community in an efficient manner by preserving the ecosystem of the water planet. Indomer is focused to be a world class Oceanographic Company by providing excellent scientific services with high standards of professionalism in multidisciplinary oceanographic projects.

Hydrotech Systems Pvt. Ltd. is a specialized **transnational** Company providing integrated design, engineering, procurement, construction and project management services for offshore / on shore / sea / sub-sea emplacements, including Land / Marine Surveys, Inspection, Maintenance, Repairs, Dredging, and Project Quality Control on a “**CONCEPT to COMMISSIONING**” basis to a clientele spread across diverse industries. The Company's position as an exemplary Project Company can be accredited to the high standards in **health, safety, environment, and quality**, coupled with a track record of timely completion of **26 off-shore emplacement** projects executed till date.

This Strategic Alliance is the outcome of the pursuit of growth and progress by the two Organizations, propelled by passion for (intellectual) excellence. Indomer and Hydrotech are functioning in a technological sphere forming critical applications for industries. For successful establishment of industries and their optimal performance, these critical applications should be formulated by right engineering intellect. By joining hands, the two Organizations have joined forces, to complement and support each other in areas of Research, Technical Knowhow & Resources, and Engineering Intellect & Support. In the process, the two Organizations would be broadening and expanding their scope of services for the clientele.

for HYDROTECH SYSTEMS PVT. LTD.

for INDOMER COASTAL HYDRAULICS (P) LTD.

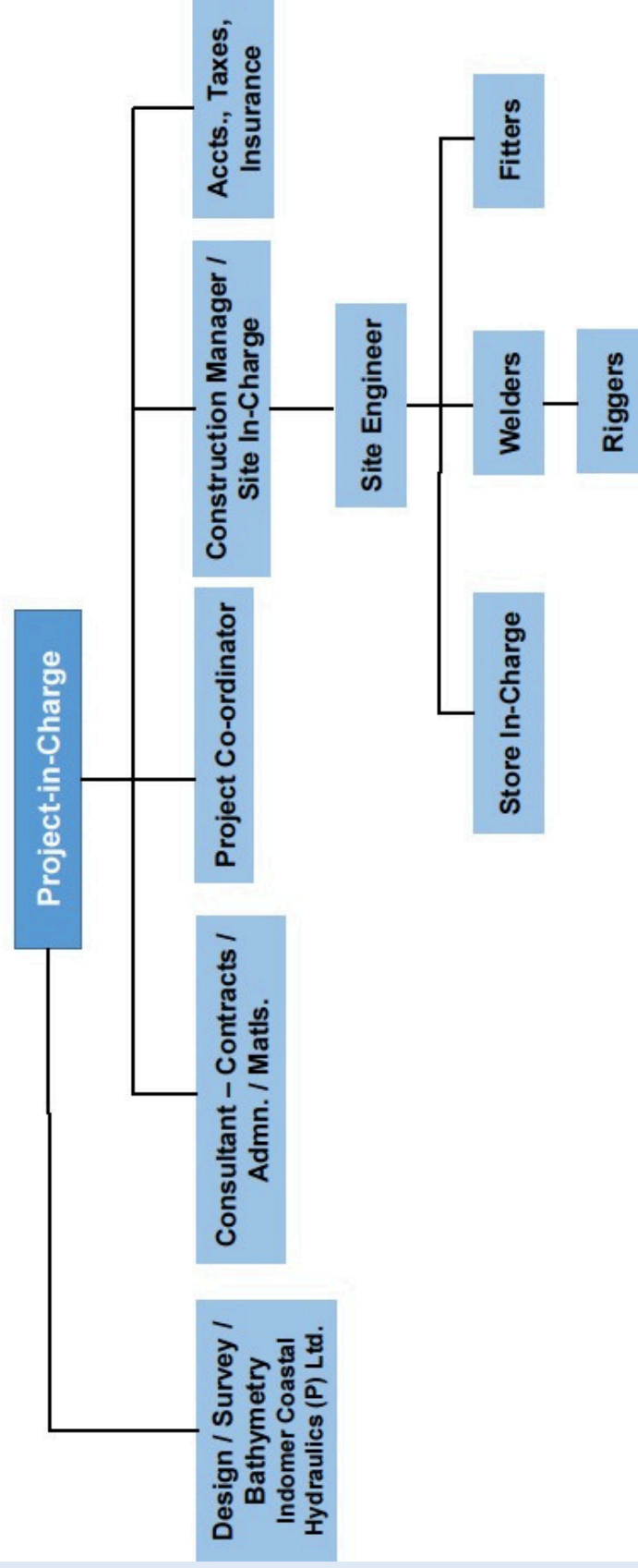


Rajeev Govindan
Director



P. Chandramohan
Managing Director

PROJECT ORGANOGRAM



INFRASTRUCTURE

Infrastructure Hydrotech Office



INFRASTRUCTURE Equipments

Sr. No.	Equipment	Sr. No. 17	Equipment
1	World Poly PE Semi-Automatic Welding Machines up to 630 mm OD		KMB Radio
2	Pressure Test Pumps	18	Surface Demand Breathing System
3	Lifting & Laying Gears	19	Scuba Cylinders
4	Pipe Rollers with Frame	20	Under Water Flood Lights
5	SEAFARER Echo Sounder	21	Under Water Video Camera
6	Garmin Echo Sounder	22	Gas Panel
7	Theodolite / Dumpy Level / Magnetic Compass	23	Canoe Mounted Dredge Pump
8	Motorola Wireless De-Compression	24	Pneumatic Tools
9	Chambers	25	Chain Pulleys
10	Air Quad	26	Buoyancy Bags
11	Open Diving Bell	27	Ropes / Sinkers / Anchors
12	Bell Amplical	28	Vibrators
13	Diving Compressors	29	PE Welding Machines – Hydraulic
14	Portable Generators	30	Under Water Safety Equipment
15	Diving Control Panels	31	H. P. Quad
16	Marine Equipment		

Project Executed

Sea Water Intake System

1. Augmentation of Sea Water Reverse Osmosis Plant {Phase II} at Kudankulam, Nagercoil, Tamil Nadu, for Tata Projects Limited {NPCIL, Kudankulam}
2. Erection, Testing, Commissioning & Performance Testing of HDPE pipeline from sea water intake system for Tata Projects Limited {Chemplast Sanmar Limited at Cuddalore, Tamil Nadu}

Marine Outfall System

1. Augmentation of Sea Water Reverse Osmosis Plant {Phase II} at Kudankulam, Nagercoil, Tamilnadu, for Tata Projects Limited {NPCIL, Kudankulam}
2. Reject water disposal system for Chemplast Sanmar Limited (Karaikal, Puducherry)
3. Erection, Testing, Commissioning & Performance Testing of HDPE pipeline for sea water intake system for Tata Projects Limited {Chemplast Sanmar Limited at Cuddalore, Tamil Nadu}
4. Supply & Installation of twin marine outfall pipeline into Bay of Bengal, Puducherry, for Shasun Chemicals & Drugs Limited, Puducherry
5. Installation of Marine Outfall System for Caldive International Ltd., Singapore
6. Installation of Marine Outfall System for Manali Petrochemical Ltd., Chennai
7. Installation of Marine Outfall System for Jay Chemical Industries Ltd., Khambhat (Cambay), Gujarat – Phase I
8. Installation of Marine Outfall System for Jay Chemical Industries Ltd., Khambhat (Cambay), Gujarat – Phase II
9. MOST RECENTLY EXECUTED: Design, Procurement, Transport, Supply and Laying of Subsea pipeline, along with the diffuser system at Kesanapalli (W) for disposal of Treated Water from Kesanapalli ETP for Oil and Natural Gas Corporation (ONGC) on LSTK basis

Chlorine Injection System

- Augmentation of Sea Water Reverse Osmosis Plant {Phase II} at Kudankulam, Nagercoil, Tamil Nadu, for Tata Projects Limited {NPCIL, Kudankulam}□

Project Executed

Underwater Pipelines / River Crossing

1. Design Engineering of anti-buoyancy measures & underwater installations of PE pipeline for Kerala water authorities under JBIC aided project, Kozhikode, Kerala
2. Design Engineering of anti-buoyancy measures & underwater installations of PE pipeline for Kerala water authorities under JICA assisted project, Kozhikode / Cochin,

Salvage / Diving Services

- Marine works for 100 mld Desalination Plant, Minjur–Chennai for Chennai Water Desalination Limited CWDL)

Off-shore Surveys

- Reject water disposal system for Chemplast Sanmar Limited (Karaikal, Puducherry)
On-shore Projects
1. Augmentation of Sea Water Reverse Osmosis Plant {Phase II} at Kudankulam, Nagercoil, Tamil Nadu, for Tata Projects Limited {NPCIL, Kudankulam}
 2. Lakshadweep island work for National Institute of Ocean Technology, Chennai
 3. UNDER EXECUTION: Execution of Drainage Piping System for Package 1 (10.38 km) for the under-construction 21.8 km Mumbai Trans Harbour Link MTHL), also known as the Sewri–Nhava Sheva Trans Harbour Link.

Special Projects

- Precision sinking of large diameter PE pipeline at designated locations Infrastructure / Jain Irrigation Systems

Soil Investigation

- Off-shore Consultancy & Soil Investigation – Marine Precision sinking of large diameter PE pipeline at designated locations for Befesa Infrastructure / Jain Irrigation Systems

WORK COMPLETION CERTIFICATE

	<p>TRANSPORT AND INSTALL SUN WELLHEAD PLATFORM AND 14" X 53.84 KM PIPELINE ON BEHALF OF Hindustan Oil Exploration Co. Ltd Contract Number No: PYICBA006 "PY-1 T&I CONTRACT"</p>	
<p>COMPLETION CERTIFICATE No. 13 <u>Upon completion of HDPE Pipeline Installation</u></p>		
<p>This is to certify that Hydrotech Projects & People has completed the installation of the HDPE Pipeline.</p>		
SRM	Activity / Description	DATE
C1.	Completion of welding of HDPE pipe joints.	19 Feb 08
C2.	Procurement and fabrication of anchor blocks and satisfactory completion of the 7 th day strength test of anchor blocks.	27 Mar 08
C3.	Satisfactory completion of the 28 th day strength test of anchor blocks.	17 Apr 08
C4.	Position and pullout of HDPE pipeline from PPN landfall site to Offshore tie-in point.	26 Apr 08
C5.	Pre-Burial Survey	03 May 08
C6.	Installation of Bubbles diffuser, complete with flange mating	07 May (R) 08 11:00hr
C7.	Completion of offshore burial to depth -0.5 meters top of pipe	08 May 08
C8.	Final As Built Survey	15 May 08
C9.	Installation of temporary anchor blocks at the diffuser	17 May 08
C10.	Onshore tie-in and burial to 2 meters and reinstatement of beach site to pre-construction condition	18 May 08
C11.	HDPE pipeline burial	21 May 08 @ 08:00hr
C12.	Final Burial Survey	21 May 08
<p>FOR AND ON BEHALF OF: HYDROTCH PROJECTS & PEOPLE</p> <p> PROJECT DIRECTOR DATE: 21 May 08</p> <p></p>		<p>ACKNOWLEDGED BY, FOR AND GAIL OIL & GAS CONSTRUCTION (MUMBAI) LTD.</p> <p> REPRESENTATIVE (SIGNATURE) TITLE: PROJECT DIRECTOR DATE: 27 May 08</p> <p></p>

18th Feb 2021TO WHOMSOEVER IT MAY CONCERN

THIS HAS REFERENCE TO OUR WORK ORDER NO.MPL/HSPL/EDL/10/002 AWARDED TO M/S. HYDROTECH SYSTEMS PVT LTD, KANDIVILI WEST MUMBAI 400067 FOR INSTALLATION AND BURIAL OF MARINE OUTFALL SYSTEM OF 400MM OD, HDPE PIPELINE, 700 MTR LONG IN TO BAY OF BENGAL.

WE HEREBY CERTIFY THAT THE WORK WAS COMPLETED IN TIME AND IS WORKING SATISFACTORILY. WE WISH THEM ALL THE BEST.

WITH BEST REGARDS

FOR MANALI PETROCHEMICALS LIMITED

AUTHORISED SIGNATORY



Registered Office :

SPIC House, 88, Mount Road, Guindy, Chennai - 600 032.



Befesa Infrastructure India (P) Ltd.,
No.2 Mc Nicholas Road,
"GEE GEE Universal" 2nd floor,
Chetpet, Chennai – 600 031
Tamil Nadu, (India).
Phone : +91 44 42954009
Fax : +91 44 42954030
Website : www.befesa.cta.com

BEFESA

December 09, 2009

CERTIFICATE

This is to certify that M/s. Hydrotech Systems Pvt. Ltd. Unit No. 103, 1st Floor, Dani Rashmi, Gokhale Road, Dahanukarwadi, Kandivali (W), Mumbai – 400 067, has satisfactorily completed the underwater HDPE pipeline installation, in stipulated time, with following details:

- | | |
|--|--|
| 1 Name of Work | : Submarine HDPE intake and outfall pipeline installation for desalination plant at Ennore basin at Minjur, Tamilnadu. |
| 2 Name of Client | : Chennai Water Desalination Limited, setting up the project for the Chennai Metro Water Corporation. |
| 3 Name of project- implementing agency | : Befesa Infrastructure India (P) Ltd, Chennai. |
| 4 Name of contractor | : M/s Hydrotech Systems Pvt. Ltd. |
| 5 Project Details | : Jointing, Reflotation, Toeing and Sinking of 1600 mm OD HDPE (PE100, SDR-28) Intake and Outfall pipeline of length – 1464 meters at sea water depth of 15 mts. |
| 6 Value of Contract | : Rs. 926 lakhs |
| 7 Date of Completion | : 10 th September 2009 |

Thanking you,

For Befesa Infrastructure India
Pvt Ltd

Manuel V. Alonso San Martin
Marine Works Sr. Manager



Befesa Infrastructure India (P) Ltd.,
No:2 Mc Nicholas Road,
"GEE GEE Universal" 2nd floor,
Chetpet, Chennai - 600 031
Tamil Nadu, (India).
Phone : +91 44 42954009
Fax : +91 44 42954030
Website : www.befesa.cta.com

BEFESA

09th December, 2009

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/S Hydrotech Systems (P) Ltd, Unit no 103, "Dani Rashmi", Gokhale road, Danukarwadi, Mumbai 400067 have successfully carried out re-floatation, towing in the mid sea and sinking of 1600 mm OD PE pipeline in Ennore basin at 10 to 15 mtr water depth with the following features.

- A) Intake pipeline, 1600 mm OD, PE SDR 28, 636 mtr long weighed pipeline of 1400 tons.
- B) Outfall pipeline, 1600 mm OD, PE SDR 28, 828 mtr long weighed pipeline of 1800 tons.

The apx. value of the contract for the scope of work handled by them is Rs.9.00 crores. We have got satisfied with their performance and have full confidence in their ability to handle similar projects.

Thanking you,
For Befesa Infrastructure India Pvt.Ltd.



Manuel V. Alonso San Martin
Marine Works Sr. Manager



राष्ट्रीय समुद्र प्रौद्योगिकी संस्थान
NATIONAL INSTITUTE OF OCEAN TECHNOLOGY
पृथ्वी विज्ञान मंत्रालय, भारत सरकार
(Ministry of Earth Sciences, Government of India)



एन आई ओ टी कैम्पस, वेल्चेरी - ताम्रपर्णी रोड, नारायण पुरम, पल्लीकटने, चेन्नई - ६००१००, भारत
NIOT Campus, Velachery- Tambaram Main Road, Narayanspuram, Pallikarai, Chennai - 600 100 INDIA

TO WHOM SOEVER IT MAY CONCERN

Job: Desalination Project site office at Lakshadweep

Ref.: NIOT/LD/DESAL/2009/AGATTI

This is to certify that the following work has been executed by M/s. Hydrotech Systems Private Limited, Unit No. 103, 1st Floor, Dani Rashmi, Gokhale Road, Dahanukarwadi, Kandivali (W), Mumbai-400067 as per the details furnished below:

Name of the Work: Laying Jointing & Hydro Testing of HDPE underwater pipelines with allied work for following islands.

- A. Minicoy Island - 630 mm - 10 Kg., Length - 1188 mtrs.
- B. Androth Island - 560 mm - 10 Kg., Length - 1092 mtrs.
- C. Agati Island - 630 mm - 10 Kg., Length - 1044 mtrs.

Name of Sub contractor : M/s. Hydrotech Systems Private Limited

Special Features :

- All equipments, manpower, tools, tackles are transported from the main land.
- Automatic hydraulic welding machines are used with electronic data loggers.
- Stringent QAT is being strictly adhered as per NIOT standard & instructions.
- Job completed on time.

For National Institute of Ocean Technology

(M.A. KARIM)
SITE MANAGER
NIOT SITE OFFICE AGATTI



**Jay Chemical Industries
Private Limited**

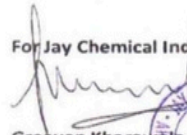
Date: 08/01/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Hydrotech Systems Pvt. Ltd., [Address: M-605, RNA Regency Park, M. G. Road, Near Hindustan Naka, Kandivali (West), Mumbai – 400067], was awarded a job of Design, Engineering, and Under Water Installation of Effluent Disposal Pipeline along with all necessary Project components vide Work Order No. WOU04191497 dated 14/02/19 and also ammendment PO No. WOU04191497 dated 15/09/20.

The scope of work of above WO / PO consisted of 280 mm OD HDPE PN10 for 7,500 mts. and 200 mm OD HDPE PN10 for 2,000 mts., with a multiport diffuser at the terminal end. The Pipelines were laid below the seabed with 1 mt. cover TOP in Mahi Estuarine Zone of Gulf of Khambhat. The above work has been completed successfully by M/s. Hydrotech Systems on 26/12/20 and is functioning satisfactorily. We wish M/s Hydrotech Systems all the success in their future Projects.

For Jay Chemical Industries Private Limited,


Greeven Kharawala
(Managing Director)

Testimonial – ONGC Project

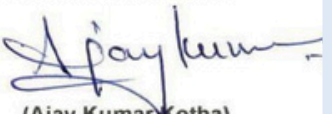


Engineering Services
OIL AND NATURAL GAS CORPORATION LTD
Second Floor, A-Wing, Room No-14, Godavari Bhavan, Base Complex
Rajahmundry, A.P-533106 Telephone No: 0883-24944431, Fax No: 0883-2427788

COMPLETION CERTIFICATE

- | | |
|---|---|
| 1. Name of Work | Design, Procurement, Transport, Supply and Laying of Subsea Pipeline of 1.5 Km Along With the Diffusor System at Kesanapalli (W) for disposal of treated water from Kesanapalli ETP on LSTK basis |
| 2. Brief Scope of Work | Design, manufacture/procure, transport, supply, installation and testing of HDPE pipeline of length 1.5km and the associated diffuser system for subsea installation. |
| 3. Name of the Contractor | M/s Hydrotech Systems Private Limited. |
| 4. NoA No. & Date | RJY/RJY-ASSET/SUPPORT/MM/2021pipeline/728441/9030010291 dated: 21.06.2021. |
| 5. Contract Agreement No. & Date | 9030010291 dated: 21.06.2021. |
| 6. Scheduled Completion Date/Duration of Contract | 20.06.2022/ 365 days from the date of issue of NoA. |
| 7. Contract Price | |
| 8. Disha File No | RJY/RJY-ASSET/SERVICES/ENGG-SER/CIVIL-CONST&MAINT/2022/KSPSS/962473 |

Certified that the project has been completed satisfactorily three months ahead of scheduled completion time on 14.03.2022 and the additional work on 25.03.2022 in line with approved drawings, contract specifications and standards, without any defect, pending liquidation of punch points, operational issue, verification/certification of documents, final measurement, resolution of cost benefits/unit adjustment, other technical and commercial issues etc. and this certificate is being issued according to and in accordance with contract provision under GCC clause 5.10.


(Ajay Kumar Kotha)
GM(E&T),
Project Coordinator,
I/C Project Group,
Engineering Services.

Date: 13.05.2022
Place: Rajahmundry.



LARSEN & TOUBRO LIMITED

MTHL Pkg-01 Project office,
Gate No. 01, Sewri Timber Pond (STP) Yard,
Near Gadi Adda, Sewri (E),
Mumbai – 400015

To whomsoever concern

We hereby certify that Subcontractor HYDROTECH SYSTEMS PRIVATE LIMITED has completed the work assigned through Work order LE/LE171107/WOD/21/000240 dated 28-Dec-2021 (Job description- MTHL Pkg1, Job No. LE171107) in all respects and completed on 25-Nov-2023.

The work was executed as per specification, requirements and quality of work found to be satisfactory.

For Larsen & Toubro Limited

Gopinath Alla
Project Manager

Mumbai Trans Harbour Link Project-Package 1

Page 1 of

Regd. Office:
Heavy Civil Infrastructure IC, L&T Construction,
C/O Larsen & Toubro Limited, Mount Poonamallee Road,
Manapakkam, P.B.N. 979, Chennai – 600089 Tamil Nadu, India
PH : +91-44-3319 2905, Fax: +91-44-3319 2950

Site Office:
L&T-IHI Consortium,
MTHL Pkg-01 Project office,
Gate No. 01, Sewri Timber Pond (STP) Yard,
Near Gadi Adda, Sewri (E),
Mumbai – 400015

RECOGNITION

Recognition for Successful Installation of Down Take Drainage Systems (HDPE Pipes) in Mumbai Trans Harbour Link (MTHL) - Package 1

- Hydrotech Systems Pvt. Ltd. played a pivotal role in the successful completion of Package 1 of the Mumbai Trans Harbour Link (MTHL) project, India's longest sea bridge. This phase involved the critical task of installing the Down Take Drainage Systems, specifically HDPE (High-Density Polyethylene) pipes, which are essential for the effective management of water flow and ensuring the durability and sustainability of the bridge's infrastructure.
- The Mumbai Trans Harbour Link is a flagship project that connects Mumbai to Navi Mumbai via a sea bridge, enhancing connectivity, reducing traffic congestion, and supporting economic growth. Hydrotech's contribution to the project's Package 1 has helped lay the foundation for a sustainable and technologically advanced infrastructure.

Recognition for Excellence

Hydrotech received recognition from Larsen & Toubro (L&T) for its contribution to the successful completion of Package 1, with particular commendation for its excellence in marine engineering and the timely delivery of critical project components.

Glimpses of the Project Execution Phases – ONGC



RCC Blocks Casting



HDPE Pipes Welding



Hydrotesting of HDPE Pipe



Pontoon with Dredger



Flange Jointing of Pipes



Diffuser at Location



Divers Tightening the Bolts of Flange Jointing



On-shore Burial of Pipeline

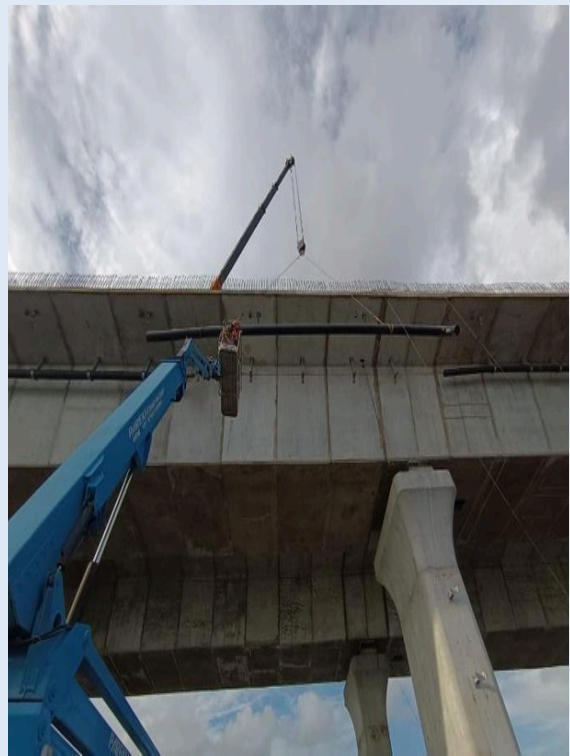
Glimpses of the Project Execution Phases – L&T



Guide & Anchor Support Installation



Another View of Pipe Erection



Pipe Erection



Pipe Installation using 'C' Platform



Collector Pipe Alignment



Electro-fusion Saddles Welding



Span with Complete Pipes & Fittings



Different Views of a Span with Complete Pipes & Fittings

Glimpses of the Project Execution Phases – DIVIS LAB



Glimpses of the Project Execution Phases



Pipeline in Final Alignment



Pipeline Sinking in Process



Pipeline in Alignment



RCC Anchor Blocks



Diffuser Assembly



Marine Launching in Progress



Laying in Trenches



Pipeline Sinking in Trenches

Glimpses of the Project Execution Phases



Secondary Blasting



Mooring Blocks Transportation to Jetty



Installation of Mooring Blocks



1600 mm OD Pipeline Sinking in Progress



Pipeline Salvage



Salvage Operation



Project Briefing before Launching Day



Installation of Weather Station

Glimpses of the Project Execution Phases



Winching to Shore



1600 mm OD Pipeline Towing in the Mid-Sea



Marine Tug Nupul



Spud Barge



Excavator Loading to Spud Barge



Modular Pontoons

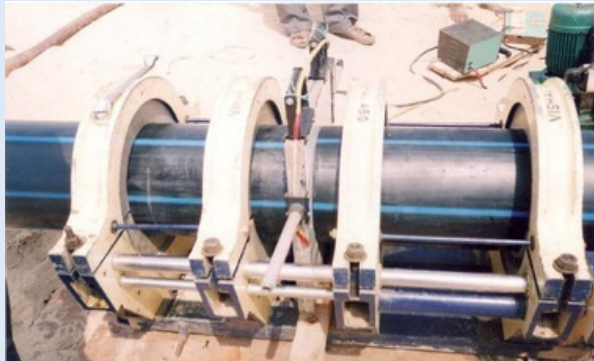


Long Arm Excavator

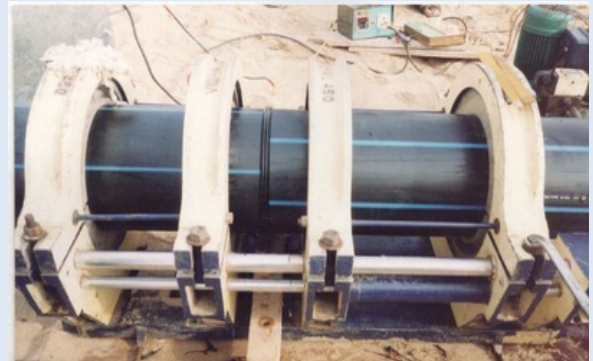


Dredging in Progress

Glimpses of the Project Execution Phases



Welding of Pipes – Stage 1



Welding of Pipes – Stage 2



Pipe Laying in I/T Zone



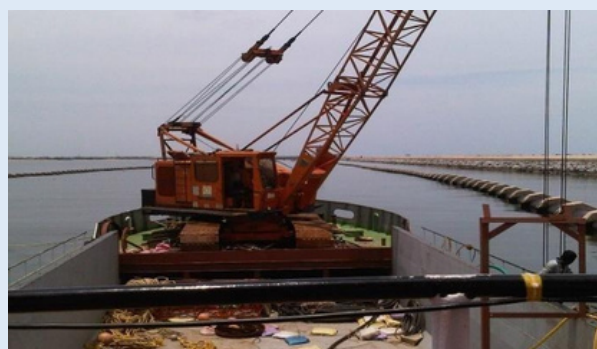
In-House Quality Checks



Platform Erection for Geotechnical Investigation



1600 mm OD Pipeline Towing in the Mid Sea



Salvage Operations and Securing



**Indigenously Designed
Post-burial Equipment**

Hydrotech Systems Pvt. Ltd. has collaborated with several prominent companies on various projects:

1. Tata Projects Limited
2. NPCIL, Kudankulam, Nagercoil, Tamil Nadu
3. Chemplast Sanmar Limited, Cuddalore, Tamil Nadu
4. Chemplast Sanmar Limited, Karaikal, Puducherry (Pondicherry)
5. Shasun Chemicals & Drugs Limited, Puducherry (Pondicherry)
6. Caldive International Limited, Singapore
7. Manali Petrochemical Limited, Chennai
8. Jay Chemcial Industries Ltd., Khambhat (Cambay), Gujarat
9. Kerala Water Authorities
10. Larsen & Toubro Limited
11. Jain Irrigation Systems Ltd.
12. Koya & Company Construction Limited, Hyderabad
13. Chennai Water Desalination Limited
14. Befesa Infrastructure India (P) Ltd.
15. National Institute of Ocean Technology, Chennai
16. Thermal Powertech Corporation India Ltd.
17. Oil and Natural Gas Corporation (ONGC)
18. Chemfab Alkalis Karaikal Ltd. (Current Running Project)
19. Divi's Laboratories Limited, Andhra Pradesh (Current Running Project)
20. Laurus Labs Limited

CONSOLIDATED STATEMENT OF WORKS DONE

List of work done by M/S HYDROTECH SYSTEMS PVT. LTD

SR no	Name of work	Name of Organisation
1.	Installation of sea water intake marine pipeline, Reject disposal pipeline.	Pioneer polyfeb Ltd., Bangalore & Tata projects Ltd. Mumbai.
2.	Installation of sea water intake marine pipeline, Reject disposal pipeline.	Tata Projects Ltd, Mumbai
3.	Rectification of underwater chlorination Pipeline	Tata Projects Ltd , Mumbai
4.	Design and installation of submarine Pipeline	Shasun Chemical and drugs Ltd 'T' Nagar , Chennai
5.	Design, detailed engineering installation of submarine reject outfall pipeline	Chemplast Sanmar Ltd, karaikal.
6.	Feasibility study along with rapid EIA for Reject Disposal system	Hydroair Tectonics (PCD) Pvt. Ltd. Navi Mumbai
7.	Supply of Multiport diffuser	Chemplast Sanmar Ltd. Karaikal.
8.	Underwater Burial of pipeline of Reject Outfall pipeline in the river bed.	Chemplast Sanmar Ltd. Karaikal.
9.	Laying, joining and commissioning of PE pipes-under water crossing for Kozhikode 2B Package for JBIC assisted Kerala water Supply Projects.	Jain Irrigation Systems Ltd., Jalgaon & L&T -ECC Divn, Chennai
10.	Erection, Testing and commissioning of PE pipes and fittings including launching of intake , Reject and Chlorination pipeline in Bay of Bengal, Cuddalore - Tamilnaidu.	Tata Projects Ltd , Mumbai

11.	Desilting, repair and salvage submerged, pipeline 1600 mm OD at Ennore Port, Minjur	Befesa infrastructure India (p) Ltd, Chennai
12.	Re-floating, Towing, Sinking of 1600mm Od,PE, Twin pipeline in Ennore Basin	Jain Irrigation Systems Ltd., Jalgaon
13.	Dsign, engineering, Installing of Submarine outfall Pipeline 1mtr. Post burial For a length of 700 meters off shore in Bay of Bengal	Cal Dive marine Construction(Mauritius)Ltd., HOEC, Thirukkadaaiyyur-Tamilnaidu
14.	Laying Welding & Installing of 630mm OD HDPE pipes for underwater installation in Lakshadweep	Jain Irrigation Systems Ltd., Jalgaon
15.	Geotechnical installation by making bore holes for seawater Intake & outfall Pipeline at Krishnapatnam	Thermal Powertech Corporation India Ltd Hyderabad.
16.	De-Siltation of the pre entrance zone of Naval Dockyard-Vishakapattanam.	Graftech Marine ad Engineering Pvt Ltd Mumbai.
17.	Design Engineering, Laying welding & installing of 400 mm OD, PN10, PE100 HDPE pipes for a length of 700 meters off shore in Bay of Bengal	Manali Petrochemical Ltd Manali-Chennai.
18.	Design, Engineering, Installing of Submarine Effluent disposal pipeline and Outfall Diffuser at Gulf of Khambhat.	Jay Chemical Industries, Ahmedabad-Gujarat.
19.	Installation of Effluent disposal pipeline at Surat	Cairn Energy Pvt Ltd Surat-Gujarat
20.	Laying, jointing and commissioning of PE pipes-under water crossing for kozhikode for JBIC assisted Kerala Water supply Projects.	Koya & Company Ltd. Calicut-Kerala
21.	Laying, jointing and commissioning of PE pipes-under water crossing for Cochin for JBIC assisted kerala Water Supply Projects.	Koya & Company Ltd. Calicut-Kerala
22.	Laying, Jointing & Hydro testing of HDPE underwater pipelines at Lakshadweep-Minicoy Island -630 mm, Androth Island-560mm, Agati island- 630mm	National Institute of Ocean Technology

23	Design Engineering, and underwater Installation of Effluent Disposal pipeline- HDPE	Jay Chemical Industries, Ahmedabad-Gujarat
24	Installation of Down Take Drainage systems(HDPE pipes)	L&T Pvt. Ltd , Mumbai
25	Design,Procurement,Transport,supply And Laying of Subsea Pipeline of 1.5Km Along with the diffuser System at Kesanapalli (w) for disposal of treated water from Kesanapalli ETP on LSTK basis- HDPE.	Oil and Natural gas corporation Limited (ONGC)
26	Desalination plant Intake and outfall line laying.	DIVI's Laboratories limited

PROJECT EXPERIENCE

SEA WATER INTAKE SYSTEM

Project Client	Augmentation of Sea Water Reverse Osmosis Plant {Phase II} at Kudankulam, Nagercoil Tamilnadu
Nature of Work	Tata Projects Limited {NPCIL, Kudankulam}
Salient Features	<p>Off-shore laying of HDPE pipeline of 315mm OD- 900mt into sea at 9mtr water depth.</p> <ul style="list-style-type: none"> • Project is aimed to provide potable water to NPCIL township. • Intake well (Pre-cast) with a weight of 8 tons & SS 316l circular screen was mounted on the structure. • The intake head was floated, towed to the location & connected to the tail end of the pipeline • Two Marker buoys of 1300mm dia with 2.5-ton sinker weight duly attached with 1mm mooring chain, fish plates were also installed on the pre-decided location using DGPS. • An underwater videography of the marine emplacements has been successfully done with precision and the data collected were presented in a CD ROM.
Status	Completed on time



Project	Erection, Testing, Commissioning & Performance Testing of HDPE pipeline fro sea water intake system.
Client	Tata Projects Limited {Chemplast Sanmar Limited at Caddulore - Tamilnadu} Off-shore laying of 560mm OD PN Ton HDPE pipeline -
Nature of Work	700m from the shore pump house.
Salient Features	A pre-cast intake well with a weight of 10 tons & SS 316l surface screen was mounted on the structure.
Status	Completed on time



MARINE OUTFALL SYSTEM

Project	Design, Procurement, Transportation, Supply, and Laying of Subsea Pipeline of 1.8 Km along with the Diffuser System at Kesanapalli for disposal of treated water from Kesanapalli ETP on LSTK basis.
Client	Oil and Natural Gas Corporation Limited, Rajahmundry
Nature of Work	Offshore laying of 225 mm OD 1.5 Km Long in to the sea with Multiport diffuser.
Salient Features	<p>Laying of 1.8 Km long 225 OD PN16 HDPE pipe in to the sea with 1500 no's concrete ballast blocks.</p> <p>Design, Supply & Installation of Multiport Diffuser.</p> <p>LSTK Project (Total Trunkey).</p> <p>Post burial of pipeline with indigenously made state-of-art ploughing equipment and successfully carried out post burial up to a 1.5m depth below sea bed.</p>
Status	Completed on 3 months before scheduled time.



Diffuser at Location



Divers Tightening the Bolts of Flange Jointing



On-shore Burial of Pipeline

Project	Installation of Marine outfall system (Phase-2)
Client	Jay Chemical Industries Ltd. Khambhat (Cambay)
Nature of Work	Design, Engineering, Welding, Testing & commissioning of marine outfall 280mm OD, HDPE PN 10 for 16 km.
Salient Features	<ul style="list-style-type: none"> • Installation of multi-port Diffuser • Continuous outfall pipeline of 12 km length spanning to I/T zone and offshore up to a water depth of 16 meter. • Special diffuser configuration to suit site condition • Second largest current scenario in the world more than 6 knot per second. <p>Tidal variation is more than 12 meters.</p>
Status	Completed on time.





Project	Augmentation of Sea Water Reverse Osmosis Plant {Phase II} at Kudankulam, Nagercoil Tamilnadu
Client	Tata Projects Limited {NPCIL, Kudankulam}
Nature of Work	Off-shore laying of 200mm OD - 500mt into the sea at 7mtr water depth
Salient Features	<ul style="list-style-type: none"> • Installation of Pre-cast marine diffuser with a weight of 4 tons at the terminal end of the pipeline • The marine diffuser was floated, towed to the location & connected to the tail end of the pipeline.
Status	Completed on time



Project Client	Reject water disposal system Chemplast Sanmar Limited
Nature of Work	- Karaikal Underwater disposal system in Estuarine zone.
Salient	Specially designed diffuser was installed below 6m water
Features	depth To effect dilutions during ebb-tides The pipeline is buried by post burial method through the mid-stream river for average depth of 1mtr below the river Bed to Estuarine zone near the sea mouth Completed
Status	on time



Project	Erection, Testing, Commissioning & Performance Testing of HDPE pipeline for sea water intake system.
Client	Tata Projects Limited {Chemplast Sanmar Limited at Cuddalore - Tamilnadu}
Nature of Work	Off-shore laying of outfall pipeline 280mm OD HDPE PN ton - 1100mtr long at 12m water depth.
Salient Features	Parabolic marine diffuser with 16 ton underwater inside concreting was supplied for installation.
Status	Completed on time



Project	Supply & Installation of twin marine outfall pipeline into Bay of Bengal, Pondicherry.
Client	Shasun Chemicals & Drugs Limited, Pondicherry.
Nature of Work	Design Engineering, supply of project components & on-shore/off-shore laying of 110mm OD HDPE pipeline - 700mtr into the sea at 8mtr water depth
Salient Features	<ul style="list-style-type: none"> • Twin pipelines are housed in one block upto the terminal end of the pipeline. First marine outfall designed with Tsunami precautionary measures. • Mono-block diffuser designed for 2 types of effluent & one extended arm for emergency intake system.
Status	Partly Completed

Project	Installation of Marine outfall system
Client	Caldive International Ltd. , Singapore
Nature of Work	Design, Engineering, welding, testing & commissioning of marine outfall 110mm OD, PN 10, 1200 mtr long, Thirukadaiyur, Tamilnadu.
Salient Features	<ul style="list-style-type: none"> • Post burial of pipeline in 15 days' time after installation of pipeline • Installation of monoblocks diffuser Completed on time.
Status	On Time



Project	Installation of Marine outfall system
Client	Manali Petrochemical Ltd. - Chennai
Nature of Work	Design, Engineering, welding, testing commissioning of marine outfall 400mm OD, PN 10, 700 mtr. Pipeline.
Salient Features	<ul style="list-style-type: none"> • Handled 250% counter buoy blocks. • Towing the flotilla 12 km in open sea up to the final alignment. • Diffuser erection and connection in underwater.
Status	Completed on time.



Project	Installation of Marine outfall system
Client	Jay Chemical Industries Ltd. Khambhat (Cambay)
Nature of Work	Design, Engineering, welding, testing commissioning of marine outfall 280mm OD, PN 8, 5 km. Pipeline.
Salient Features	<ul style="list-style-type: none"> • Installation of multi-port Diffuser • Continuous outfall pipeline without flange joint first time in the country for entire 5km length. • Special diffuser configuration to suit site condition • Second largest current scenario in the world more than 6 knot per second. <p>Tidal variation is more than 12 meter.</p>
Status	Completed on time.





CHLORINE INJECTION SYSTEM

Project	Augmentation of Sea Water Reverse Osmosis Plant {Phase II} at Kudankulam, Nagercoil Tamilnadu
Client	Tata Projects Limited {NPCIL, Kudankulam}
Nature of Work	Off-shore laying of 500mm OD HDPE PN ton 700m into the sea at 9m water depth
Salient Features	<ul style="list-style-type: none"> • Heavy anchoring system irrespective of size of the pipeline was designed & installed with the available corridor. • End connections with nossile systems to avoid bio falling in the intake well & the screen were made underwater using divers. •
Status	Completed on time.



Project	Design Engineering of anti-buoyancy measures & underwater installations of PE pipeline for Kerala water authorities under JBIC aided project, Kozhikode – Kerala.
Client	Larsen & Tuobro Limited/ Jain Irrigation System Limited – Chennai
Nature of Work	Design Engineering installation of: 1. Kallai River – 560 mm OD, PN 16 – 324.00 mtr 2. Faroke River – 315 mm OD, PN 16 – 1104.00 mtr 3. Punnar River – 355 mm OD, PN 16 – 180.00mtr
Salient Features	<ul style="list-style-type: none"> • The pipelines were buried upto 2mtr depth below the river bed by pre & post trenches techniques. • Steep gradant of the rivers are well negotiated & end connections to the chambers are made with precession joints. • The maximum water depth in the river is 45 feet & heavy currents of more than 2m per second are handled with utmost care & precession
Status	Completed on time.

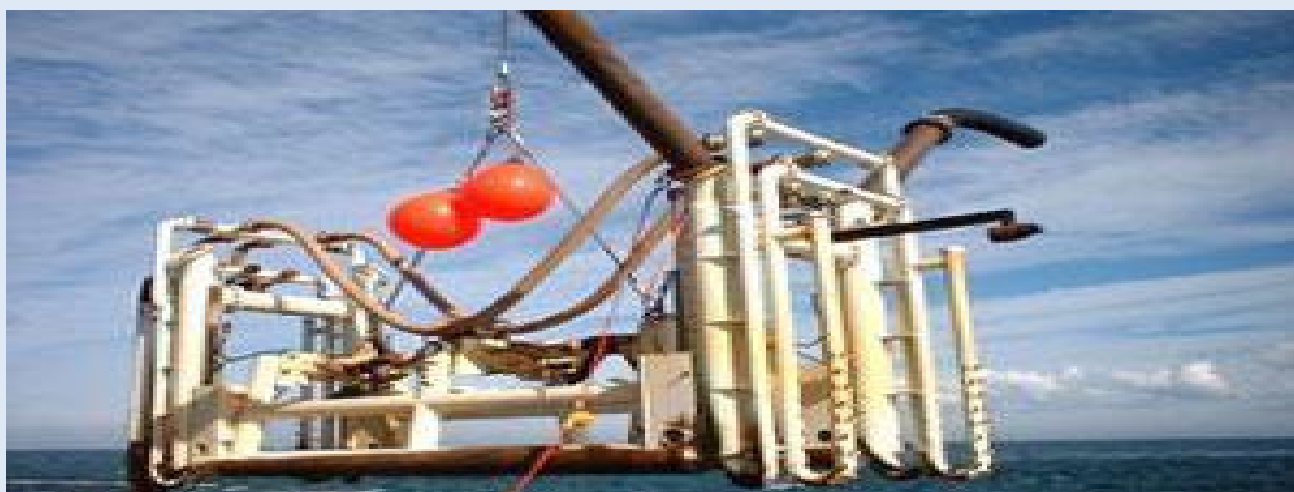


Project	Design Engineering of anti-buoyancy measures& underwater installations of PE pipeline for Kerala water authorities under JICA assisted project,Kozhikode/Cochin – Kerala.
Client Nature of Work	Koya & Company Construction Limited-Hyderabad Design Engineering installation of: 1. Thengilakkadavu River – 710 mm OD, PN 10– 140mtr X 2 Lines 2. Kandanad River- 800 mm OD, PN 10- 120mtr X 2 Lines
Salient Features	• The pipelines were buried upto 2mtr depth below the river bed by pre & post trenches techniques.
Status	Completed on time.



SALVAGE / DIVING SERVICES

Project	Marine works for 100mld, desalination plan, Minjur - Chennai fro Chennai Water Desalination Limited (CWDL).
Client	Befesa Infrastructure India (P) Ltd. Lifting and re-floating of
Nature of work	1600mm OD weighed PE pipeline 636/828m long single pieces at Ennore Port.
Salient Features	<p>1. Lifting and re-floating of 1600mm OD, weighed PE outfall pipeline, 636 mtr long single piece from 15m depth below water at Ennore Port basin & safety anchoring to position. (Aprox. Wt = 1400 tones)</p> <p>2. Lifting and re-floating of 1600mm OD, weighed PE outfall pipeline, 828 mtr long single piece from 15m depth below water at Ennore Port basin & safety anchoring to position. (Aprox. Wt = 1800 tones)</p> <p>3. Partial dredging and de-salination of buried pipeline of 1600mm OD PE pipes at Ennore Port area.</p> <p>4. Diving services work required equipments for salvage and positioning of pile debris at the terminal end of Cofferdam area.</p> <p>5. Installing and shifting of mooring block – 36nos. 5 tons each in open sea at the desired locations. Completed on time.</p>
Status	On Time



OFF-SHORE SURVEYS

Project Client	Reject water disposal system.
Nature of Work	Chemplast Sanmar Limited - Karaikal
	Marine Survey & feasibility studies for a possible discharge of brine outfall to Pervadayar river. • Bathymetry survey of the creek
Salient Features	<ul style="list-style-type: none"> • Mix diffusion modeling – 3D (First time in the country) • Collection of input data like current measurements & dispersion studies. • Coefficient of tidal levels.
Status	Completed on time.

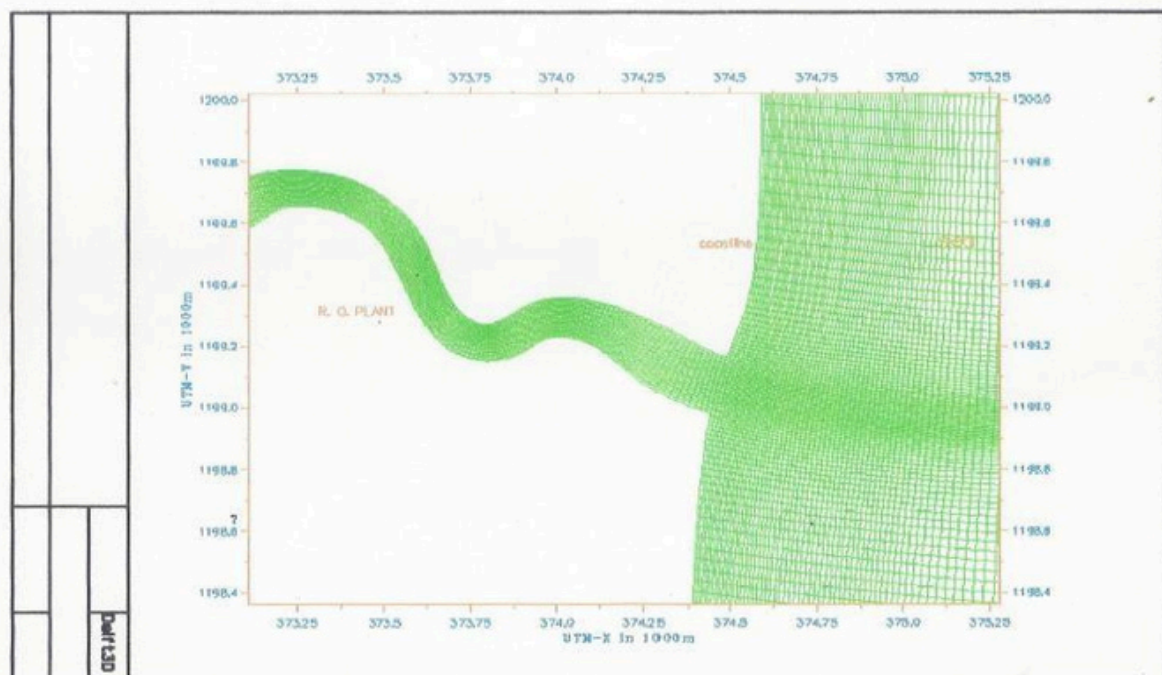
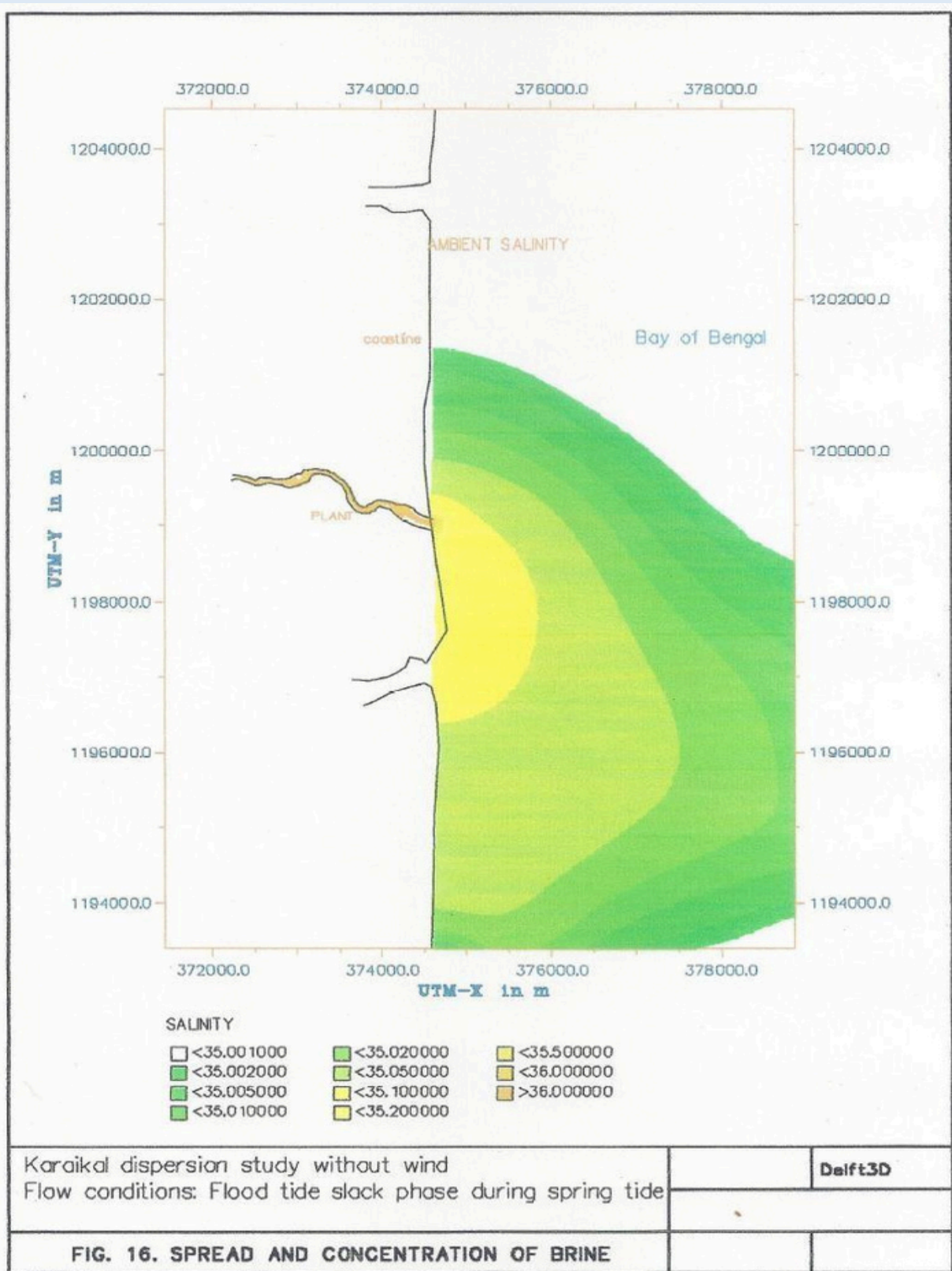


FIG. 5. DETAILED MODEL GRID



ON-SHORE PROJECTS

Project	Augmentation of Sea Water Reverse Osmosis Plant {Phase II} at Kudankulam, Nagercoil Tamilnadu
Client	Tata Projects Limited {NPCIL, Kudankulam} Secondary
Nature of Work	transportation, earthwork excavation of trenches, pre – fabrication, welding, testing & laying of following sizes: 1. 355 mm OD, PE 100, PN 8 – 2500 mtr long 2. 280 mm OD, PE 100, PN 8 – 2500 mtr long 3. 315 mm OD, PE 100, PN 16 – 1100 mtr long • Automatic Hydraulic welding machines are used.
Salient Features	• Airwent chambers with “T” connections with four road crossings alongwith concrete encasements carried out
Status	Completed on time.



Project	Lakshwadeep island work for National Institute of Ocean Technology - Chennai
Client	Jain Irrigation Systems Ltd. Secondary transportation,
Nature of Work	welding/ stubbons/ pipe fittings & hydro testing of completed pipelines for the following islands: 1. Minicoy Island 630mm / 10 kg, length 1188 mtrs 2. Androth Island 560 mm / 10 kg length 1092 mtrs 3. Agati Island 630 mm / 10 kg, length 1044 mtrs
Salient Features	<ul style="list-style-type: none"> • All equipments, manpower, tools, tackles are transported from the main land. • Automatic hydraulic welding machines are used with electronic data loggers. • Stringent QAT is being strictly adhered as per NIOT standard & instructions
Status:	Completed on time.



SPECIAL PROJECT

Project	Mumbai Trans Harbour Link Project (MTHLPKG-1)
Client	Larsen & Toubro Limited, Heavy Engineering IC
Nature of Work	Installation of Down take Drainage system
Salient Features	Installation & fixing of HDPE drainage system in entire intertidal zone with special fittings. Installation of different type of accessories for drainage system like Expansion bellows, Inclined Shovel, Anchor supports etc.
Status:	On Time



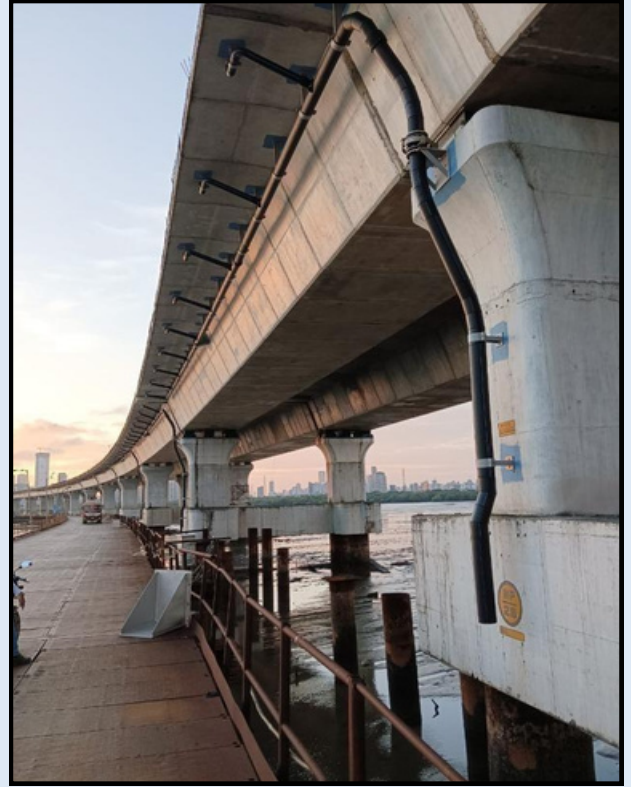
Guide & Anchor Support Installation



Pipe erection by using special designed platform



Electro-fusion Saddles Welding



Span with Complete Pipes & Fittings

Project	Precision sinking of large diameter PE pipeline at designated locations.
Client	Befesa Infrastructure / Jain Irrigation System.
Nature of Work	Towing the pipeline to designated alignment, sinking to sea bottom (15mtr water depth) of two 1600 mm OD, PE 100, SDR 28 pipeline.
Salient Features	<ul style="list-style-type: none"> • First 1600 MM installation in the country • The total handled weight is 3100 tons for both the pipelines • Sinking by pressure pumping • Handled 250% counter buoyancy blocks • Towing the flotilla 12km in open sea upto the final alignment. • Diffuser erection and connection under water
Status	Completed on time.



SOIL INVESTIGATION

Project	Offshore Consultancy & Soil Investigation-Marine Thermal
Client	Powertech Corporation India Ltd.
Nature of Work	Collection of marine bore samples, testing, conceptual design & engineering services for Seawater Intake & Reject water disposal system with large diameter HDPE pipes <ul style="list-style-type: none"> • 10 nos. bore holes along the pipeline alignment with maximum
Salient Features	<ul style="list-style-type: none"> • terminal dept of 10 mtr below the sea bed. • Disturbed and non disturbed samples. • Laboratory testing & preparation of bore logs. • Conceptual design of Seawater Intake/ Outfall system including pipe structure, intake structure with inverted cap foundation along with multiport diffuser. • Preparation of tender schedule with technical specification •
Status	Completed on time



OFFICE INFRASTRUCTURE





ISO 9001 : 2015 Company

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