



Corporate Presentation Oil & Gas Competence **Skids Mounted Units** References

....A Total Water & Environment Management Company

Profile



- Offices in Vadodara (HQ), Chennai, Mumbai, New Delhi & Oman
- Started in Feb., 1962
- Over 300 Projects
- ISO 9001: 2008 Certified Company
- ASME U, S, R & NB Code Authorized Manufacturing Facilities
- 250+ Water Specialists & Engineers with an average experience of 20+ years.
- Professionally Managed Organization
- www.paramountlimited.com

Business Areas



Water Source Development, Transmission, Treatment & Distribution

Soild / Liquid / Gas Hazardous Waste Management (Incineration System)



Brackish / Sea Water Desalination Plants

Air Pollution Control Systems & EIA Studies



Industrial Water Treatment RWTP, DM, RO, CPU, Side Stream Filtration

Sewage Treatment & Sewage Recycling Industrial
Effluent Treatment,
Recycling & Zero Liquid
Discharge

Scope of Services



Concept to Commissioning

In every project phase ...

Project Development

- Feasibility studies
- Environmental impact studies
- Lab / pilot studies
- Pilot and demonstration plants
- Project Management Consultancy

Design & Engineering

- Conceptual design
- Process design
- Basic design
- Design review
- Front End engineering
- Detailed engineering
- Special engineering
- Retrofit design

Manufacturing

- Pressure Vessels
- Heat Exchangers
- Process Equipments
- Process Skids

Project Execution

Design & Build

- Turn Key
- EPC
- Equipment Supply

Construction Management

- Project Management
- Procurement Assistance
- Inspection Supervision
- Supervision & Commissioning

Operation & Maintenance

- Operation Management
- Optimisation
- Trouble Shooting
- De-bottlenecking
- Operation & Maintenance
- HSE Services
- Operational Support & Technical Services

...we are your partners!



PARAMOUNT'S ACCREDITATIONS



ASME U & S Code Stamp Accreditation





CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY

PARAMOUNT LIMITED

Manufacturing Unit-1 Shed No. 521, GIDC, Makarpura Vadodara, Gujarat 390 010 India

SCOPE

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: EXPIRES: September 14, 2021 September 14, 2024

CERTIFICATE NUMBER: 36036

Rial B. Cym

Board Chair, Conformity Assessment



The American Society of Mechanical Engineers

Managing Director, Conformity Assessment



CERTIFICATE OF AUTHORIZATION

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COMPANY

PARAMOUNT LIMITED Manufacturing Unit-1 Shed No. 521, GIDC, Makarpura Vadodara, Gujarat 390 010

SCOPE

Manufacture and assembly of power boilers at the above location and field sites controlled by the above location

AUTHORIZED EXPIRES: September 14, 2021 September 14, 2024

CERTIFICATE NUMBER 36035

Ras B. Cym

Board Chair, Conformity Assessment



The American Society of Mechanical Engineers

Managing Director, Conformity Assessment

R & NB Mark Authorization of National Board of Boiler & PV Inspectors





THE NATIONAL BOARD

OF

BOILER & PRESSURE VESSEL INSPECTORS

Certificate of Authorization



This is to certify that

PARAMOUNT LIMITED Manufacturing Unit-1 Shed No. 521, GIDC, Makarpura Vadodara, Gujarat 390 010 India

is unihorized to use the R Symbol in accordance with the provisions of the National Board Inspection Code and NR-415. Accreditation of "R" Repair Organizations.

All activities within the scope of this Authorization shall be controlled by the above location.

The scope of this Authorization is limited to:

Metallic Repairs and Alterations

Shop and Field Locations

Certification Number:

6957

Issue Date Expontion Date

September 23, 2021 September 14, 2024

Executive Director

John War



ISO 9001: 2015 Certificate

CERTIFICAT

CERTIFICADO

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記録記号

CERTIFICATE

ZERTIFIKAT



CERTIFICATE

The Certification Body of TÜV SÜD Management Service GmbH

certifies that



Paramount Limited
Paramount Complex, Gotrl Road, Vadodara - 390 007, Gujarat, INDIA

has established and applies a Quality Management System for

Process Dosign, Engineering, Procurement and Construction of Process Plants and Projects in the Field of Environmental Management such as Water and Waste Water Treatment 8. Recycling, Desalination. Air Pollution Control, Solid and Hazardous Waste Management and Operation and Maintenance of these plants.

Maintenance of these plants. Sales & Marketing and Oesign & Engineering of Water & Waste Water Treatment Equipments.
Maintenance of these plants. Sales & Marketing and Oesign & Engineering of Water & Waste Water Treatment Equipments.

An audit was performed, Order No. 4153581761

Proof has been furnished that the requirements according to

ISO 9001:2015

are fulfilled.

The certificate is valid from 2021-08-04 until 2024-08-03 Certificate Registration No : 12 100 9789 TMS



tead of Certification Body Munich, 2021-08-05



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PARAMOUNT'S MANUFACTURING FACILITIES



Paramount Group's ASME U & S - R & NB (NBBI) Code Stamped Manufacturing Units



Polcon Equipments



Baroda

Total Plant Area: 13000 m2

Paramount Technologies



Baroda

Total Plant Area: 9000 m2

Paramount ONEIC



Oman

Total Plant Area: 10000 m2

Equipments Manufactured





Aerators



Pressure Filter

- Aerators
- Pressure sand filters
- Tanks & vessels
- Activated Carbon Filters



High Rate Solid Contact Clarifier



Oil-Water Separator (CPI)

- Agitators/Mixers
- · Clarifiers/Thickeners
- Oil Separator Mechanism



Clariflocculator



Vacuum Drum Filter

- Sludge Mixers
- Clariflocculators
- Vacuum Drum Filters

Equipments Manufactured







Skid Mounted Dosing Systems

Dosing Skid



Skid Mounted CPU System



Skid Mounted Recycle System

Skid Mounted CPU & Recycle System

Packaged Plants & Systems





Mix Bed & Dosing Skid (CPU)



Package STP



Condensate Polishing Unit (Krishi)

- Tilted Plate Interceptors & Separators
- Activated Sludge Package Plants
- Air Flotation Unit (DAF)
- Packaged Sewage Treatment Plants
- Incinerators
- Mutli Effect Evaporator



Multi Effect Evaporator



Dissolved Air Flotation

Packaged Plants & Systems





Reverse Osmosis



SO₂ Scrubber

- Membrane Based MF/UF/RO Packaged Systems
- SO₂ Scrubber
- Coiled Pipe Flocculator
- Plastic Media Biotowers
- Flue Gas Desulphurisation (FGD)
- Trickling Filter Arms



Coiled Pipe Flocculator



Trickling Filter Arms



PARAMOUNT'S DESIGN & ENGINEERING COMPETENCE



Stronghold of Paramount – Project Management Consultancy (PMC)





MAA Refinery (Kuwait): 818 m3/hr

PARAMOUNT – A LEADING PROJECT MANAGEMENT CONSULTANT (PMC) IN WATER & WASTE WATER MANAGEMENT & TECHNOLOGIES

Paramount – a recognized Project Management Consultant (PMC) Worldwide in Water & Waste Water Management





- Conceptual Design
 - Front-End Engineering Design



- Detailed Engineering
 - Advanced Process Solutions



Project Management Expertise



HSE Services





Design & Engineering par Excellence – Software Packages



- Design & Engineering Competence with all global standards & codes like Shell DEP, ASME, BS, IS, Merkblatter, DIN EN, JIS, GHOST(R)
- Project Management
 - PRIMAVERA
 - M. S. Project





- 3D Plant Design & Layout Package
 - PDS®: Premier Plant Design and Layout & Piping Package
- Heat Exchanger Design & Simulation
 - HTRI®: Premier Heat Exchange Design & Analysis Package
- Mechanical Design
 - PVElite®: Columns, pressure vessels & U Code Stamp Vessels
 - E-Tank: Storage Tank Software for API-650. API-620, API-653

Design & Engineering par Excellence – Software Packages



Electrical Design

ETAP: Enterprise Software Solution for Power Systems

Structural/Civil Design:

STAAD-Pro 2006 :

(IS+BS+US) - For design of most of Civil/structural units including tanks, buildings, shed etc. with Indian, British & American codes of practice. For design of retaining wall, foundation/ footing in any material - concrete, timber, steel, masonary & foundation Work



STAAD Section Wizard/DTO:

For working out properties of any shape section

Milestone PMC Projects – KNPC, Kuwait





MAB Refinery (Kuwait): 900 m³/hr

Procurement Assistance including:

Preparation of Specification for Mechanical Equipment, Piping, Valves & Special Electrical Equipment & Material, Instrument for Floating Inquiries.

- Technical Evaluation of Vendor offers, checking & review vendor prints.
- Meeting with end client (KNPC) to facilitate approval of documentation.
- Preparation of As built Drawing for all Disciplines.

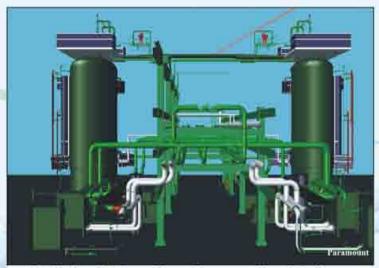
Total Project Cost: US\$ 200 million

Paramount PMC Cost: 30 Cr INR (US\$ 6.5 million)

The entire ETP engineering design is as per Shell DEP for all new facility and as per KNPC standards for modification in existing Refinery area.

Paramount scope of PMC work included following:

- Process Design -Detailed Civil design (STAAD Calculation & Drawings)
- Mechanical Equipment Engineering
- · Piping Engineering
- · Electrical Engineering
- Instrumentation Engineering
- Preparation and Finalization of the new RETF Plot Plan.
- Facilitation of HAZOP Study.



De-Hazing / Moisture Control System at Kuwait Refinery

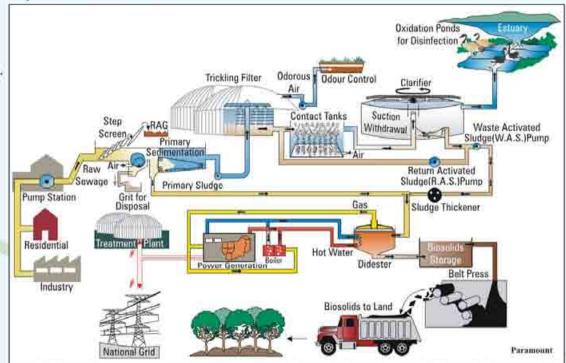
Milestone PMC Projects - Ebara, Japan



Detailed Engineering Services for 200 MLD Sewage Treatment Plant for EBARA Corporation Japan for city of Asthana – Kazakhstan with scope of work as under:

- · Process design
- Mechanical equipment engg.
- Piping engg.
- · Electrical engg.
- Instrumentation engg.

Procurement Assistance including:



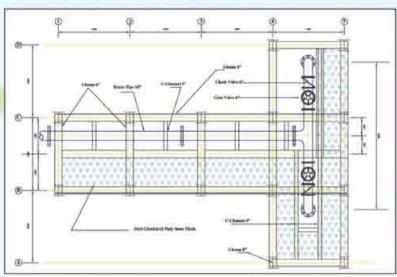
Preparation of specification for Mechanical Equipment, Piping, Valves & special Electrical Equipment & Material, Instrument for Floating Inquiries.

- Technical Evaluation of vendor offers, checking & review vendor prints.
- Preparation of As built drawing for all disciplines.

Milestone PMC Projects – IPCL, Gandhar



Indian Petrochemicals Corporation Ltd.



Water Supply scheme for Gandhar Petrochemicals Complex Bharuch District 22.0 MGD (100.0 MLD)

Client :

Reliance Industries Limited (Formerly Indian Petrochemicals Corporation Ltd. (IPCL) Gandhar, Bharuch.)

- Capacity : 22.0 MGD (100.0 MLD)
- Project Cost : 16 Million US\$

 Project: Project Feasibility Study and finalization of Narmada Water Intake System, Pumping and Transmission of Water (70 kms) to Water Reservoirs at Plant site.

Scope of Work :

- Feasibility Study
- Survey
- Design, Detail Engineering & Construction Supervision



PARAMOUNT TECHNOLOGIES FOR CRUDE OIL REFINERIES – HYDROCARBON – OIL & GAS - PETROCHEMICALS



Biological Process- Activated Sludge Process





Indian Oil Corporation Ltd, Vadodara - 1600 m³/hr Capacity



Indian Oil Corporation Ltd, Panipat - 400 m³/hr Capacity

Scheme: Free oil separation in TPI oil separator --> Physico Chemical Treatment in DAF --> 2 stage biological system with
plastic media bio tower as 1st stage followed by Activated Sludge Process operating under extended Aeration
Process --> final polishing by PSF & ACF followed by Chlorination.

Biological Processes (SBR & Bio-Tower)







Sequential Batch Reactor (SBR)
Mangalore Refinery & Petrochemicals Ltd., Mangalore(MRPL)



Plastic Media Bio-Tower Alembic Limited, Gujarat

· Client:

Mangalore Refinery & Petrochemicals Ltd., Mangalore

Project:

Effluent Treatment Plant with treated water Recycle in Refinery

SBR Capacity: 600 m³/hr

Client:

Alembic Limited, Gujarat

Project :

Effluent Treatment Plant for Pharmaceutical & Bulk Drugs

Bio-Tower Capacity:

3000 m3/day

Biological Processes (Membrane Bio Reactor)







Flat Sheet Membrane Mangalore Refinery & Petrochemicals Ltd., Mangalore (MRPL)

· Client:

Mangalore Refinery & Petrochemicals Ltd., Mangalore

Project:

Effluent Treatment Plant with treated water Recycle in Refinery

MBR Capacity:
 600 m³/hr (Flat Sheet Membrane)





Hollow Fibre Membrane Sanofi Aventis, Gujarat

· Client:

Sanofi Aventis, Gujarat

Project:

ETP with Zero Liquid Discharge System for API Unit (Bulk Drugs)

MBR Capacity:

200 m³/day (Hollow Fibre Membrane)

Biological Processes (Automated Chemostat Treatment)



"First Refinery ETP with Unique Biological Process"



Salient Features

- Tailored bacterial cocktail
- Low bacterial concentration throughout the process
- Full automation of monitoring and control

Customer:

Bharat Petroleum Corporation Limited, Kochi Refinery, Kochi, Kerala.

Consultant:

Engineers India Ltd.

Capacity:

700 m³/hr

Project Value :

INR 1140 Million

Advantage

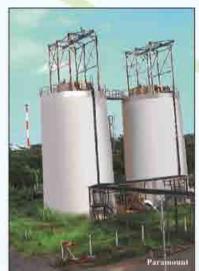
- No effects of High COD Fluctuation in Waste Water
- Can work as high as TDS 40000 ppm
- Produces half the amount of Bio Sludge
- Can degrade oil from 1000 ppm to as low as 2 ppm

Biological Processes (Anaerobic Technologies)





Anaerobic Upflow Fluidised Bed Reactor (UFB)
Orchid Pharma & Chemicals Ltd, Chennai



Upflow Anaerobic Sludge Blanket Reactor (UASB) Alembic Limited, Gujarat

• Client : Orchid Pharma & Chemicals Ltd, Chennai

Project: Bio-bed an Anaerobic Treatment facility for Treatment of Highly Organic Waste Water for a API Plant.

- Client : Alembic Limited, Gujarat
- Project:

 ETP for Effluent from
 Molasses Distillery, Erythromycin
 Penicillin Plant.
- Capacity:
 120 m³/day

Bio Remediation





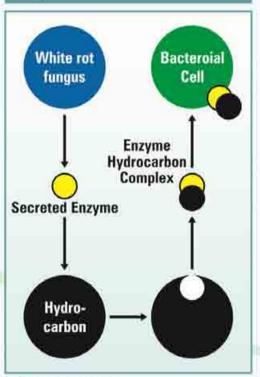
Bio-Remediation at M/s. Mangalore Refinery & Petrochemicals Ltd.

Oily and Chemical Sludge from Oily Effluents if dumped as land fill can damage Soil & Water table due to its Toxic Leachate.

Bio remediation is a principle adopted to utilize Microbial action to reduce the Total Petroleum Hydrocarbon from the Sludge & convert as non Hazardous Land fill Bio sludge.

Microbes in a confined atmosphere maintaining appropriate nutrients enhance the Bioremediation procedures.

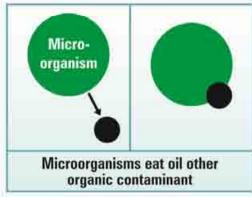
Enzymes Enhanced Bioremediation

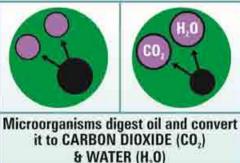


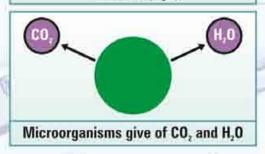
Paramount's Milestone References:

 MRPL Phase-III Capacity: 1000 M³/yr

Petroleum Bioremediation







Bio-Remediation System



Client: MRPL, Mangalore

Capacity: 1000 m3/annum







Wet Air Oxidation (WAO)





MRPL, Mangalore Wet Air Oxidation Plant 5 m3/hr



Paramount's Milestone References:

- MRPL, Mangalore
- ONGC, Hazira

- Spent caustic effluent from Refinery generally contains high levels of Sulphidic, Cresylic & Naphthenic contaminants.
- Oxidation of contaminants is the methodology followed for WAO treatment.
- The effluent is subjected to partial Oxidation with the help of diffusing compressed air & steam. The vent gas is passed through an activated carbon filter before vent to atmosphere for prevention of odour.
- The second step is Oxidation in the presence of a strong catalyst in an Oxidation Reactor.
- Further Oxidation of the contaminants by treatment with a strong oxidizing agent in a Reaction Chamber is final step to treat the effluent before disposal.

ONGC, Hazira 1 m³/hr Wet Air Oxidation Plant

Volatile Organic Component (VOC) Control





- Oil in Effluent from Refinery consist varied variety of Hydrocarbon that will liberate Volatile Organic components to atmosphere from the Oily Effluent and may create a combustible atmosphere.
- VOC system is required to reduce VOC components vent to atmosphere by 90% as per CPCB norms.
- The method uses Activated Carbon as Adsorbents for removal of VOC gas.
- VOC Adsorption is an Exothermic reaction and adequate safety system is combined for safe operation.

Paramount's Milestone Reference:

 MRPL Phase-III Capacity: 4000 nm³/hr

Paramount's On - Shore Oil & Gas Solutions



"Paramount's On - Shore Oil & Gas Solutions"

- > Effluent Treatment Plants
- > Produced Water Systems
- **≻Water Reinjection Systems**
 - **≻**Group Gathering Stations

PARAMOUNT'S ON - SHORE OIL & GAS SOLUTIONS



- Effluent Treatment Plants
- Produced Water Systems
- Water Reinjection Systems
 - Group Gathering Stations



Paramount – A Leading Player in Produced Water Treatment for Oil & Gas Industry



Water Injection & Produced Water Treatment Capabilities for On/ Offshore Platforms



Water Re-injection system & ETP for ONGC, Karaikal, Pondichery



Water Re-injection Plant & ETP for ONGC, Mehsana

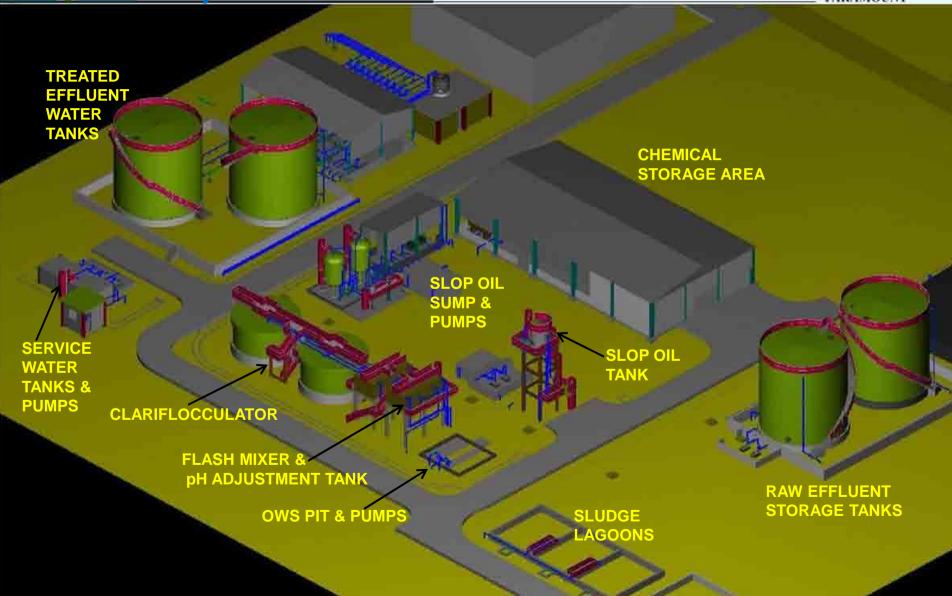
Water Re - Injection Systems :

Sea Water Lift Pumps & Coarse filtration, Chlorine Generators, Pre Treatment Systems, Deareation packages, Chemical Storage, Dosing & Injection.

Produced Water Treatment Capabilities :

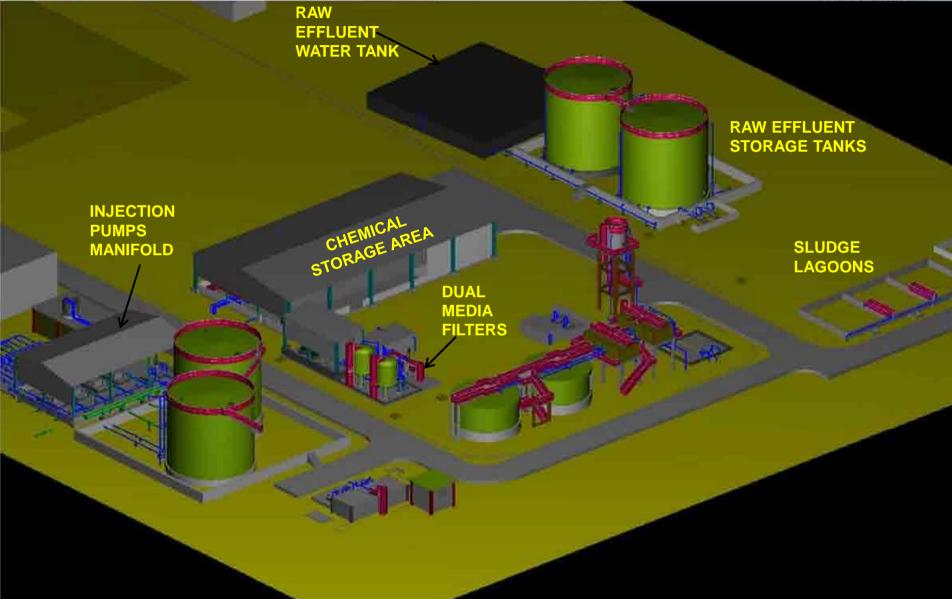
Tilted Plate Oil/ Water Plate Separators, Dissolved Air / Gas Floatation Systems, PSF/DMF/ACF, Ceramic Membrane Filtration Systems. ONGC Karaikal – Produced Water Treatment & Reinjection Plant





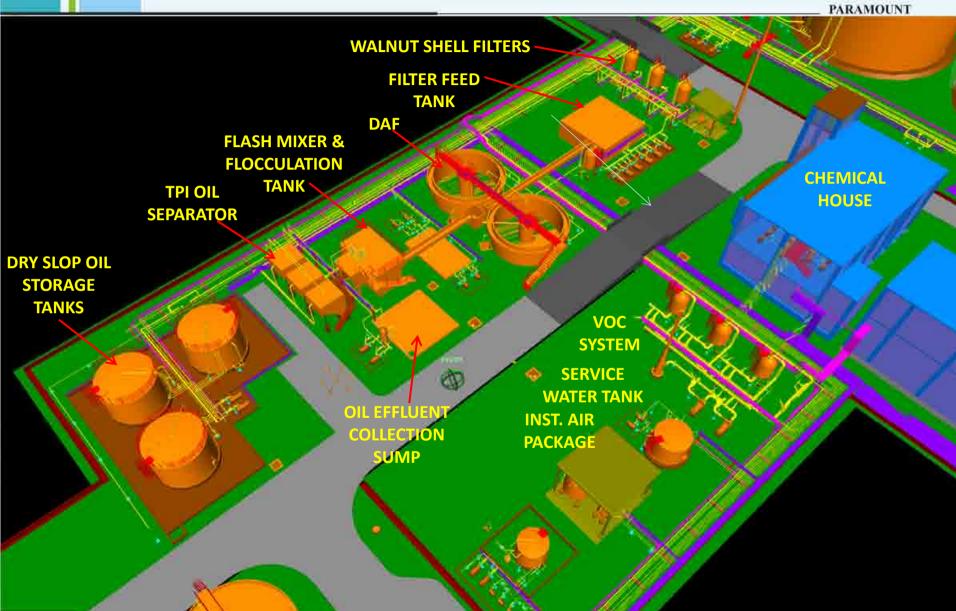
ONGC Karaikal – Produced Water Treatment & Reinjection Plant





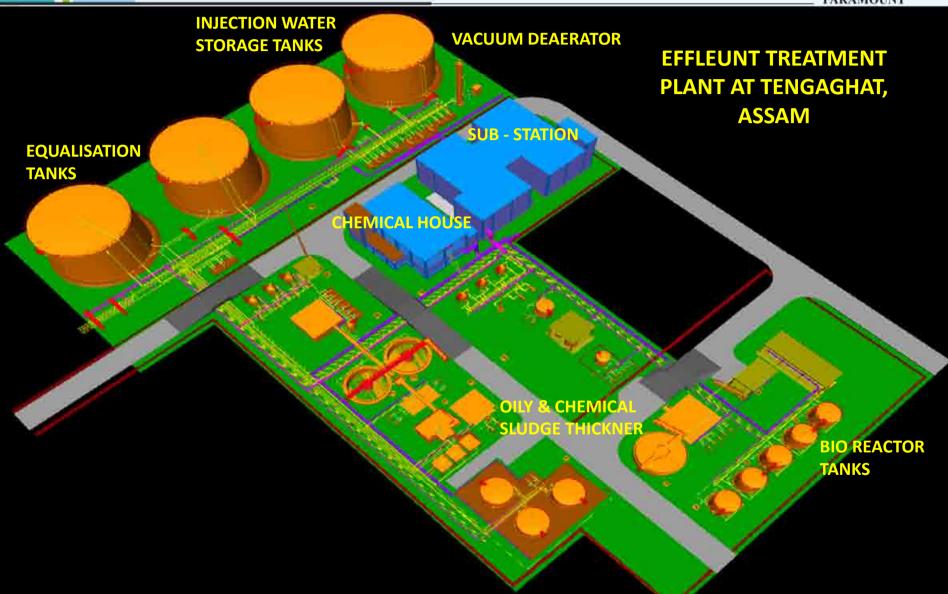
Oil India – Produce Water Treatment Plant





Oil India – Produced Water Treatment Plant

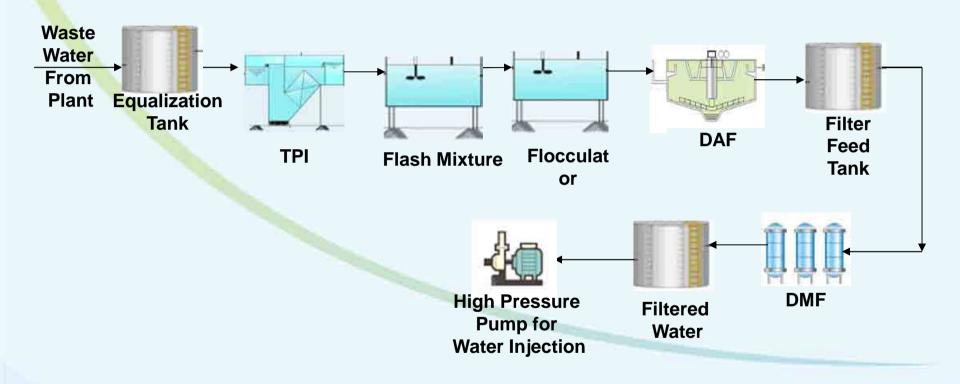




Paramount's references at ONGC - Produce Water Treatment Plant



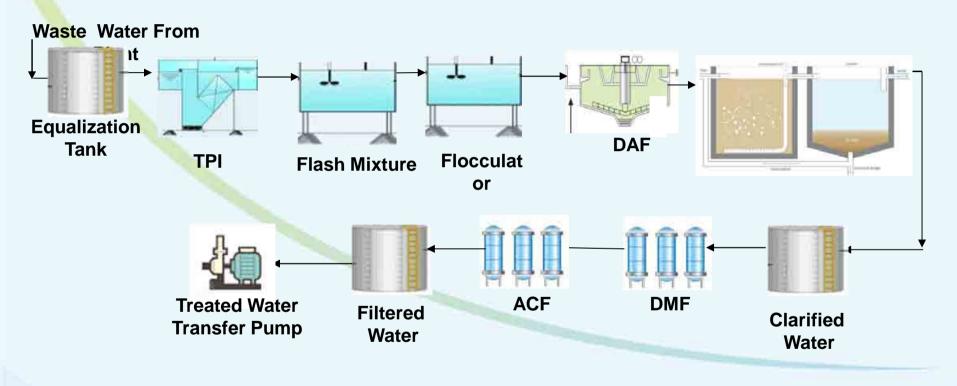
ONGC Becharaji & ONGC Kathana



Paramount's references at ONGC - Produce Water Treatment Plant



ONGC Ankleshwar



Group Gathering Station – ONGC Becharaji





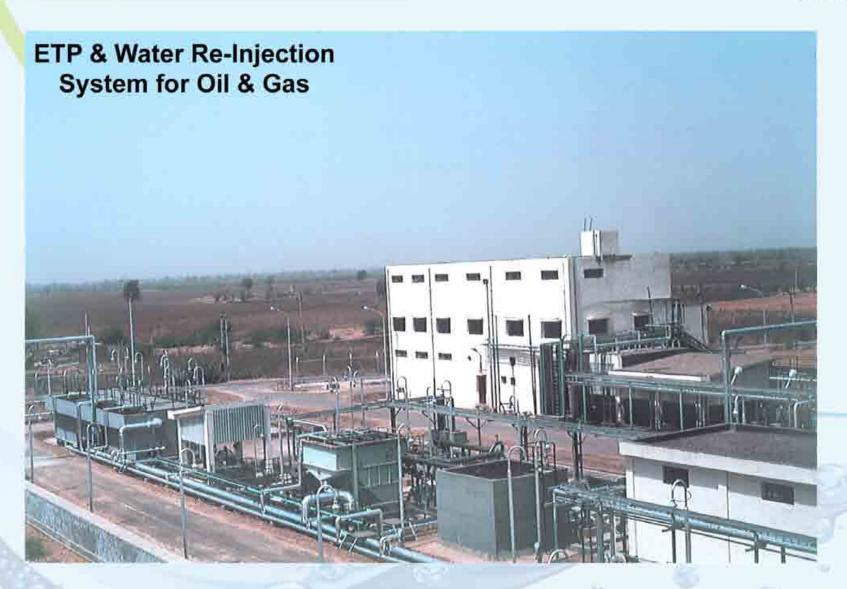






ONGC ASP Re-injection Plant – ONGC Mehsana







Mangalore Refinery

Flow: 24000 m3/day

(Refinery & Petrochemical Industry)

Waste Water Treatment & Recycling Plant – Industrial Effluents



A unique "Refinery ETP with Recycle System" - First of its kind with combination of all latest Technologies - SBR / MBR / UF / RO / VOC Control System / Bio Remediation / Wet Air Oxidation.....



One of India's Largest Industrial Waste Water Treatment & Recycle Plant at M/s. Mangalore Refinery & Petrochemicals Ltd. (Phase III Refinery Project).

Customer:

Mangalore Refinery & Petrochemicals Ltd. (Phase III Refinery Project).

Consultant:

Engineers India Ltd.

Capacity:

1000 m3/hr

Project Value :

INR 1600 Million

Scope:

A Project on "Concept to Commissioning Basis" with Complete Scope of Design, Engineering, Procurement, Supply, Manufacturing, Construction & Erection of Civil & Structural, Mechanical, Electrical, Piping & Instrumentation Works, Testing Commissioning & PG Test of WWTP & Recycle Plant.

Waste Water Treatment & Recycling Plant - Industrial Effluents





Control Room for ETP & Recycle Plant at M/s. Mangalore Refinery & Petrochemicals Ltd.



RO Skids at M/s. Mangalore Refinery & Petrochemicals Ltd.

Key Features of Project:

- Largest UF/MBR + R0 Plant of its kind in India.
- 75% of Refinery Effluent reused for Cooling Tower & DM Application.
- Combination of latest Technologies of PT - SBR – MBR - RO for Oily Water & PT - DMF - ACF - UF - RO for CTBD and DM Regeneration Water.
- Most Ecofriendly "VOC Control" Technology and "Bio Remediation Sludge Treatment Technology.
- A Unique Wet Air Oxidation Technology used in Plant for High Sulphide removal.
- Over 15000 m³ of RCC Work.
- Over 1000 MT of Site Fabricated 6 Nos.
 Storage Tanks of Capacities varying form 1100 m³ to 3500 m³.
- Fully DCS Controlled Plant.

MRPL Charactristics



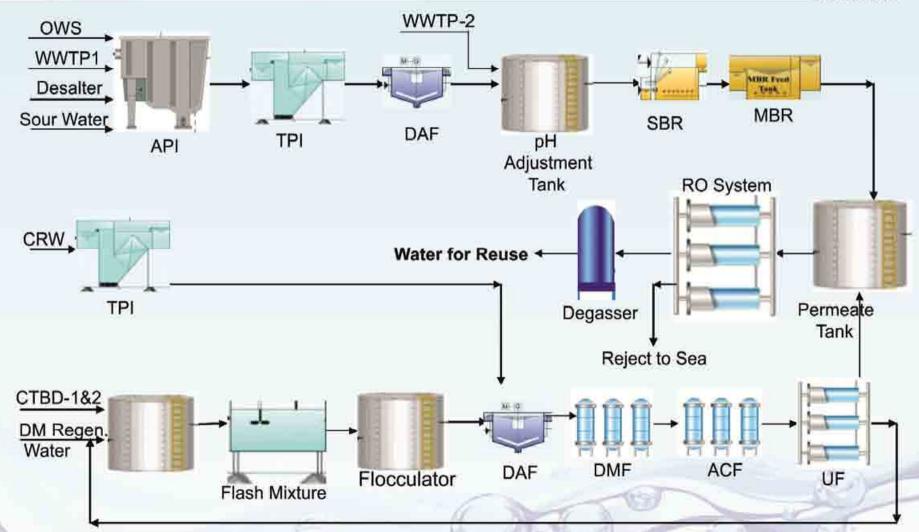
Inlet Characteristics		CTBD & DM neutralized stream	Inlet to ETP
Parameter	Units	Concentration	Concentration
Total Suspended Solids	mg/l	75	< 500
TDS	mg/l	2049	1200
Total Oil	mg/l	< 10	< 10000
BOD 27°C, 3 days	mg/l	4	< 600
COD	mg/l	17	< 1200
M Alkalinity	mg/l	100	300
Calcium Hardness as CaCO₃	mg/l	226	85
Magnesium Hardness as CaCO ₃	mg/l	126	55

Outlet Characteristics

Parameter	Units	Concentration
Total Suspended Solids	mg/l	Nil
TDS	mg/l	80
BOD 27°C, 3 days	mg/l	BDL
COD	mg/l	BDL
M Alkalinity	mg/l	10
Calcium Hardness as CaCO ₃	mg/l	5
Magnesium Hardness as CaCO ₃	mg/l	3
Operating Cost	Rs.	27/m3

Block Diagram MRPL



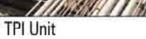


573

MRPL - Site









API Unit



DAF Unit



SBR Unit



MBR Unit



DMF - ACF Filter

MRPL - Site









Wet Air Oxidation

Chemical House

RO Skid







RO Degasser

Micron Filter

Bio-Remediation



Chennai Petroleum Corporation Ltd

Flow: 10,000 m3/day

(Petrochemical Industry)

CPCL Charactristics



Inlet Characteristics		neutralized stream	inlet to ETP
Parameter	Units	Concentration	Concentration
Total Suspended Solids	mg/l	< 100	< 600
TDS	mg/l	4000	1500
BOD 27°C, 3 days	mg/l	5	< 600
COD	mg/l	20	< 1500
Total Oil	mg/l	< 10	< 50000

M Alkalinity Calcium Hardness as CaCO₃ Magnesium Hardness as CaCO₃

< 10 mg/l mg/l 100 mg/l 226 mg/l 126

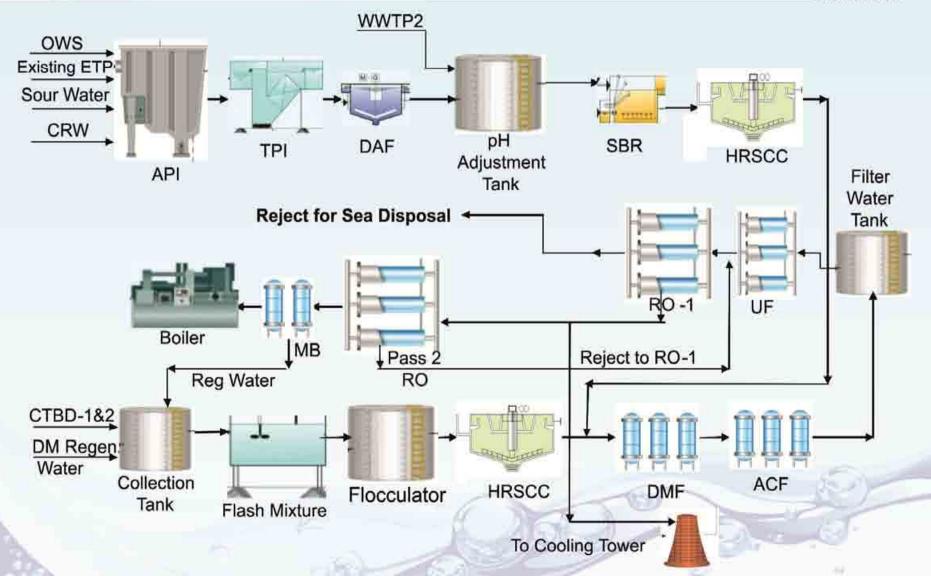
CTDD 9 DM

Outlet Characteristics after MB

Parameter	Units	Concentration
Total Suspended Solids	mg/l	Nil
TDS	mg/l	< 1
BOD 27°C, 3 days	mg/l	BDL
COD	mg/l	BDL
Silica	mg/l	0.02
Operating Cost	Rs.	45/m3

Block Diagram CPCL





CPCL's ETP Plant









CPCL's UF - RO - DM Plant













Bharat Petroleum Corporation Ltd

Flow: 18000 m3/day

(Refinery & Petrochemical Industry)

BPCL Charactristics



Inlet Characteristics

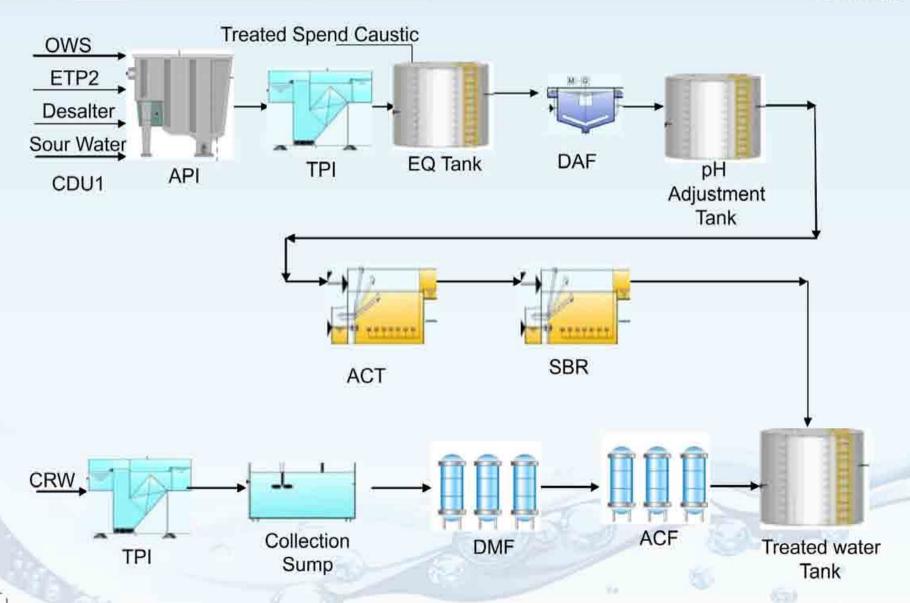
Parameter	Units	Concentration
Total Suspended Solids	mg/l	< 300
BOD 27°C, 3 days	mg/l	500 to 600
COD	mg/l	800 to 1000
Sulphides	mg/l	50
Phenols	mg/l	50
Ammonia as N	mg/l	50 to 60
Oil	Mg/I	1000

Outlet Characteristics after MB

Parameter	Units	Concentration
Total Suspended Solids	mg/l	20
Sulphides	mg/l	0.5
BOD 27°C, 3 days	mg/l	15
COD	mg/l	125
Phenois	mg/l	0.35
Ammonia as N	mg/l	5
Oil	mg/l	5

Block Diagram BPCL, Kochi







Skid Mounted Plants



SKID MOUNTED PLANTS MANUFACTURED AT PARAMOUNTS' FACILITIES



Skid Mounted Tilted Plate Separator (TPS)



Client : BIS, Singapore

Capacity: m3/hr



Skid Mounted-Oil Water Separator



Client: IOT - Fujairah UAE

Flash Mixture, Pipe flocculator Followed by DAF including dosing

systems



Skid Mounted-Oil Water Separator



Client: IOT - Fujairah UAE

Flash Mixture, Pipe flocculator Followed by DAF including dosing

systems



Skid Mounted-Oil Water Separator



Client: IOT - Fujairah UAE

Flash Mixture, Pipe flocculator Followed by DAF including dosing

systems



Skid Mounted Produce Water treatment Plant



End User : ONGC Assam
Skid mounted ETP having flash mixture, Flocculator, DAF, Dosing systems followed by PSF & Cartridge filter



Skid Mounted Produce Water treatment Plant



End User : ONGC Assam
Skid mounted ETP having flash mixture, Flocculator, DAF, Dosing systems followed by PSF & Cartridge filter

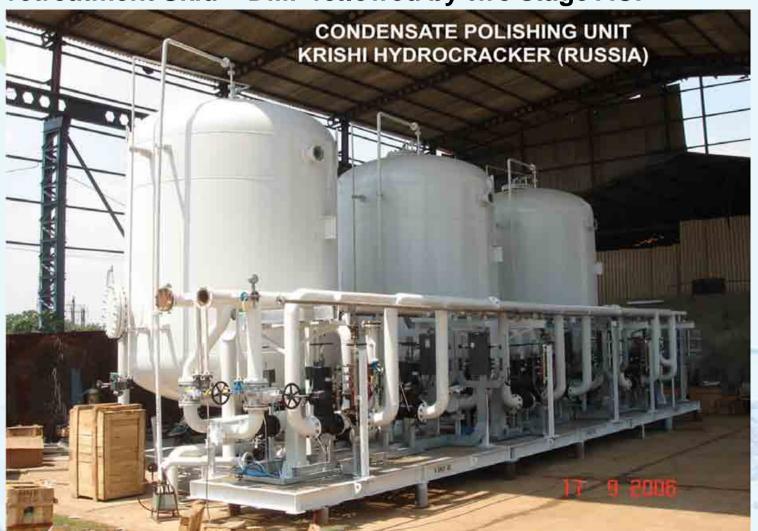




Filtration Plants



Client: Krishi Hydrocracker, Russia
Pretreatment Skid – DMF followed by two stage ACF



Condensate Polishing Unit



Client: Krishi Hydrocracker, Russia – Mixed Bed



Condensate Polishing Unit



Client: Krishi Hydrocracker, Russia



Filtration Plants



Client : IOCL, Panipat

Capacity: 400 m3/hr





Client: MRPL, Mangalore

Capacity: 600 m3/hr

Skid Mounted Tilted Plate Interceptor (TPI)



Client : GAIL, Pata

Capacity: 110m3/hr



Ultra Filtration Skid



Client: Asahi Songwon India Pvt. Ltd.

Capacity: 50 m3/hr



Ultra Filtration Skid



Client: Mangalore Refinery

Capacity: 150 m3/hr

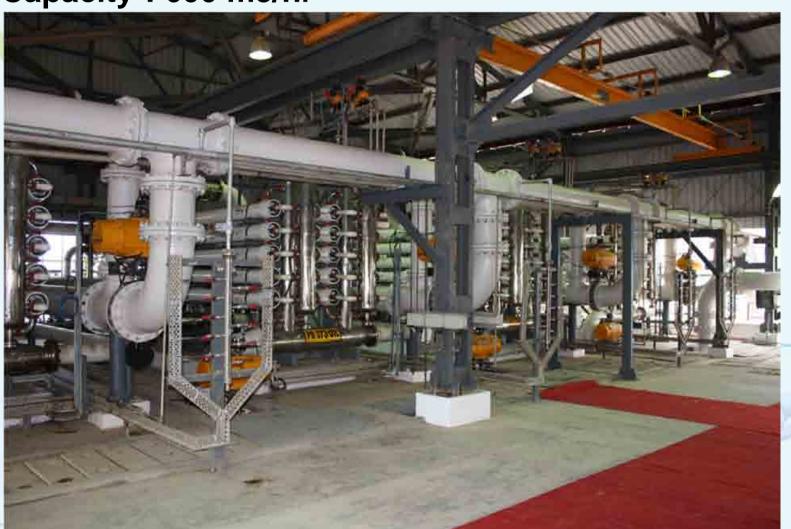


Ultra Filtration Skids Installed At Site



Client: Mangalore Refinery

Capacity: 600 m3/hr



Cartridge Filter – Skid Mounted







Cartridge Filter – Skid Mounted



Client : MRPL, Mangalore

Capacity: 1000 m3/hr



ETP Recycle Plant



Client : Sandoz

Capacity: 400 m3/day



Reverse Osmosis Skids Installed At Site



Client: Mangalore Refinery

Capacity: 1000 m3/hr



Reverse Osmosis Skid



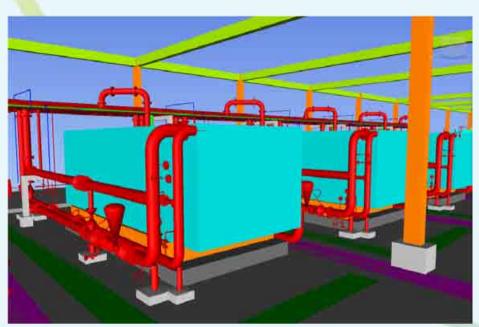
Client: Mangalore Refinery

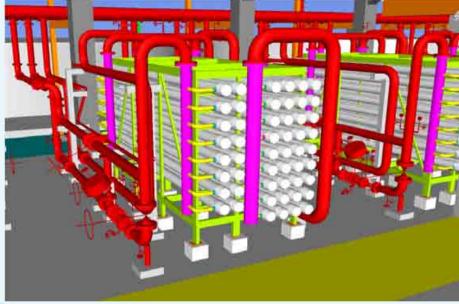
Capacity: 167 m3/hr

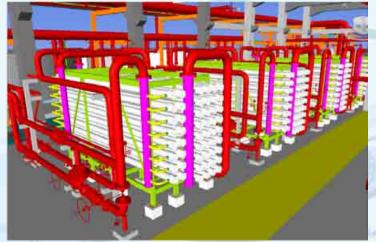


3D Model - UF & RO Skid









Skid Mounted - Condensate Polishing Unit



Client : BCPL (Petrochemical)

Capacity: 30 m3/hr



BCPL Skid Mounted CPU





Condensate Polishing Unit



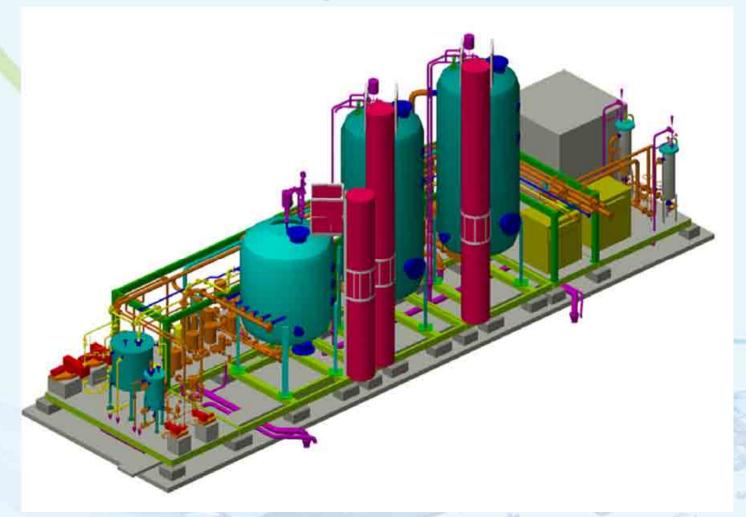
Client: BCPL (Petrochemical) Installed at Site



3D Model - Condensate Polishing Unit



Client: BCPL (Petrochemical)
Skid Mounted CPU including all Instruments & Electrical Items



3D Model - Condensate Polishing Unit



Client: BCPL (Petrochemical) - Front View



Mixed Bed Unit



Client : ONGC, Uran- Mumbai

Capacity: 75m3/hr



Skid Mounted – Water Softener



Client: Sumiyoshi - Singapore



Lenntech, Netherland - Water Softening Skid for Samref Refinery, Saudi Arabia





Lenntech, Netherland - Water Softening Skid for Samref Refinery, Saudi Arabia





Dosing Skids



Client : Doosan Hydro, USA



Dosing Skids



Client : Doosan Hydro, USA



3D Model – Pre-Treatment



Client: Doosan Hydro, USA Filters (PSF & ACF) including Dosing Skids for RO System

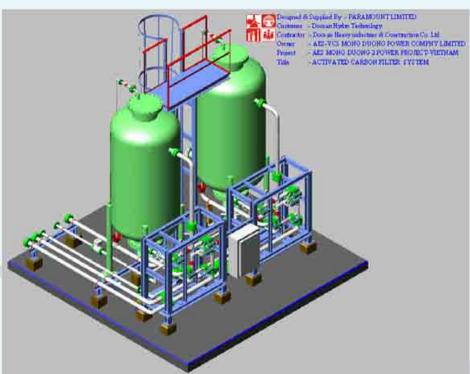


Dosing Skids



Client: Doosan Hydro, USA





Package Sewage Treatment Plant



Client: Cairn Energy - India



Skid Mounted ETP



Client: Shell L N G, Hazira



Skid Mounted ETP



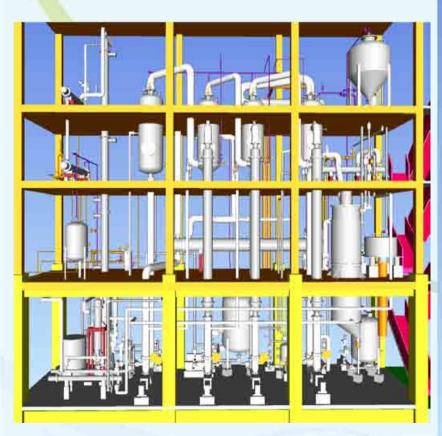
Client: Shell LNG, Hazira

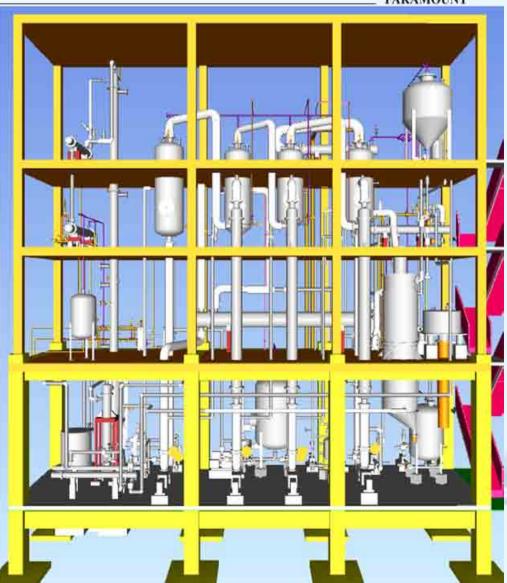


3D Model Skid Mounted Multiple Effect Evaporator



Client: Sanofi, India





Skid Mounted Multiple Effect Evaporator



Client: Sanofi, India



Multi Effect Evaporators for Mazda Colours







Pigment Industry-Ceramic Micro Filtration













Side Stream Filters and Activated Carbon Filters for BORL, Bina





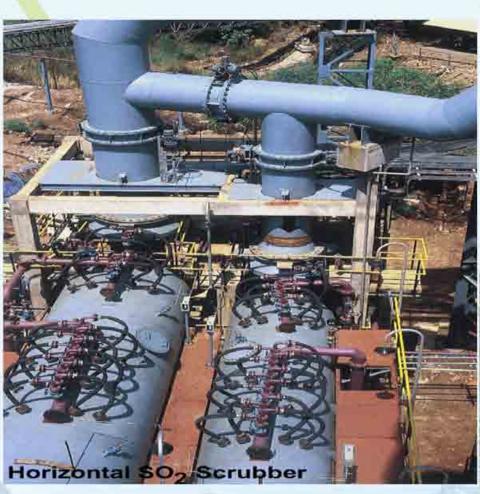




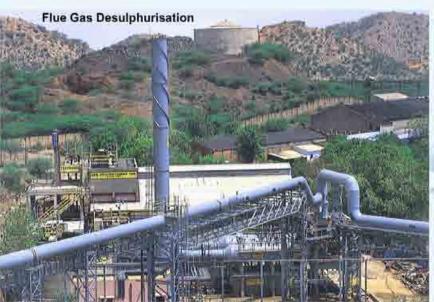


Flue Gas Desulphurization for Hindustan Copper Limited, Khetri









Incinerators







Incinerator at IOCL, Paradeep for Solid Waste (Oily Sludge and Spent Carbon)



Our International clientele includes



Client

- Petroleum Coke Industries (Kuwait)
- Sawfan Petroleum Technologies Co. WLL (Kuwait)
- Ahmadiah Contracting & Trading Co. (Kuwait)
- Consolidated Contracting Co. (Oman)
- Metito Overseas Ltd. (UAE)
- FFE Minerals (USA)
- EBARA Corp. (Japan)
- ENPPI (Egypt)
- Tokyo Engineering (Japan)
- Pan Century (Malaysia)
- Aquatech International
- Plant Engineering Construction Pte. Ltd. (Singapore)
- Punj Lloyd (India)
- Esmil Process Systems (U.K.)
- DHV Water (BV) (Netherlands)
- TNO (Netherlands)
- Bechtel (USA)
- Stone & Webster (USA)
- Novartis
- Sanofi Aventis
- Bayer Corp Science Ltd.

Project Executed for

- Petroleum Coke Industries (Kuwait)
- Kuwait Oil Co. (Kuwait)
- Kuwait National Petroleum Co. (Kuwait)
- Oman Refinery (Oman)
- South Paras Oil Basin (Iran)
- Green Coke Calcination Co. (Iran)
- Asthana Water Supply Sewerage Project (Kazakhstan)
- Total (France)
- Tokyo Engineering (Niger)
- Pan Century (Malaysia)
- Mitshubishi Engg. (Phillipines)
- Bulk Liquid Terminal Products (Singapore)
- Tank Store Petroleum Pulan Busing (Singapore)
- Shell (U.K.)
- Krishi Hydrocracker (Russia)
- TNO (Netherlands)
- Petroleum Company of Trinidad and Tobago Ltd. (West Indies)
- SABIC (Saudi Arabia)
- Novartis
- Sanofi Aventis
- Bayer Corp Science Ltd.

Our association with Consultants include



- ABB Lummas Golbal B. V. Netherlands
- Jacobs, Mumbai
- Fluor Daniel, Netherlands
- Toyo Engineering (I) Ltd., Mumbai
- Kvaerner Power Gas, Mumbai
- UHDE India Ltd., Mumbai
- Worley Parsons, Oman
- Bechtel, USA
- DHV Water, Netherlands
- Ciba Geigy, Basel, Switzerland
- Engineers India Ltd. (EIL)
- Tata Consulting Engineers (TCE), Mumbai

Thank You



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