



DRAFTING & CONSULTING ENGINEERS

Reg. No. AEQPB5347FST001

RATED



COMPANY PROFILE



DRAFTING & CONSULTING ENGINEERS

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DESIGN CONSULTANCY FOR CIVIL, STRUCTURAL, PIPING & MECHANICAL INDUSTRIES

OVERVIEW

We are pleased to introduce ourselves as one of the Leading and Professional Engineering co. Since last twelve Years. We have Expertise In Executing Designing & Detailed Engineering In Areas Such As Piping, Civil, Mechanical, & Structural Projects. We Also Do Fabrication, Erection & Commissioning Job.

Our Design Service Activities In To Following Categories.

- ❖ Piping Designs, Stress Analysis, Layouts, Isometrics, Supports, Bulk MTO. On Plant 3D Software
- ❖ `AS BUILT` P & I Diagrams on Smart Plant 3D.
- ❖ Structures – Model Design, Stability Calculations / Certification, Stress Analysis.
- ❖ Chemical Equipments – Process and Mechanical Designs.
- ❖ Civil Designs, Foundation Designs, Stability Certification.
- ❖ Reverse Engineering of Machines - On Relevant 3D Software's
- ❖ Factory Audit Documentation Related To Designs & Drawings.
- ❖ Designs For Fire Detection Alarm & Protection System.

Our Services Are Fully Equipped With All Necessary Infrastructure Which Can Give You Total Design & Drafting Solution.

SOFTWARE PROFICIENCY :

| Sr.No. | 2D/3D Software | Piping | Structural | Civil | Review |
|--------|------------------|------------------------|---------------------|-----------------------|-----------------------------------|
| 1 | Auto CAD 2010 | Auto CAD 3D Plant 2011 | Advance Design 2011 | Advance Concrete 2011 | Auto CAD Navisworks Simulate 2011 |
| 2 | Auto CAD 2011 | AutoCAD P& I D 2011 | Advance Steel 2011 | Stad Pro 5 | Auto CAD Navisworks Freedom 2011 |
| 3. | Solid Works 2010 | | Ceaser II | | |

Since Last 13 Years We Are In TTC MIDC Indl. Area And Doing Designs And Drawings Jobs Related To Oil & Gas Industries, Chemical Industries, Mechanical, Water Treatment And Fabrication Industries.

PIPING PROJECTS

| Sr. | Client | Project | Scope of Work |
|-----|--|---|--|
| 1 | Cairn Energy India Pvt. Ltd. Sub Contractor – Horbiger India Pvt. Ltd. | 3 Stage Engine Driven Gas Compression System | <ul style="list-style-type: none"> ○ Civil Foundation Design Of Knock Out Drum Skid. ○ Structural Skid And PSV Platform Design. ○ As Built Equipment Layout. ○ Piping Detailed Engineering and Stress Analysis all Lines. |
| 2 | Reliance Energy Ltd. Sub Contractor - Daynite Engineers & Petrochem Services | Design a Trolley for Lifting and Move Forward to make Space for Maintenance of 60 Ton Gas Compressor. | <ul style="list-style-type: none"> ○ Design & Stress Analysis Of Compressor Lifting Trolley. Total Erection Weight 60 Ton |
| 3 | Cabot India Ltd. | 1.LPG Piping System 2.Design of Structure for Lightning Arrester | <ul style="list-style-type: none"> ○ Total Factory `AS BUILT` LPG Piping Layout And Isometrics. ○ Foundation & Tower Design for Lightning Arrester. |
| 4 | Allied Consulting Engineers Pvt. Ltd. | Hyderabad Waste Management Project | <ul style="list-style-type: none"> ○ Total Factory `AS BUILT` Piping Layout And Isometric. |
| 5 | Fajr-E-Sepahan Galvanizing Ind. Co.(Iran) | 100% H2 ATMOS. Bell Type Bright Annealing Furnace. | <ul style="list-style-type: none"> ○ Piping Rout Design, Isometric and Supports |
| 6 | Client : Bhushan Steel | 100% H2 ATMOS. Bell Type Bright Annealing Furnace | <ul style="list-style-type: none"> ○ Piping Rout Design, Isometric and Supports |
| 7. | Eisenmann Surface Finishing Pvt. Ltd. | 1.Paint Shop - Mahindra & Mahindra, Nagpure 2. Paint Shop – Yamaha, Noida | <ul style="list-style-type: none"> ○ Piping Layout Completed in Pant 3D Software. Piping Rout Design, Layout , Elevation, Isometric And Supports. ○ 3 Min Animated Walkthrough of Total Project. |
| 8. | BASF India Ltd. Contact Person ; | Admixture Chemical Capacity Enhancement Plant. | <ul style="list-style-type: none"> ○ Civil Foundation Design of Admixture Enhancement Plant. ○ Structural Design for Admixture Enhancement Platform with Stability Certificate. ○ As Built Plant Layout. ○ Equipment & Piping Route Design Layout. ○ Piping Detailed Engineering Drawings in Pant 3D Software |
| 9. | Dorf Ketal Chemicals (I) Pvt. Ltd. Taloja. Raigad Contact Person : Mr. Shantanu Banerjee Project Manager Dorf Ketal Chemicals (I) Pvt. Ltd. Dadra, Gujarat | Plant 1 & 2 | <ul style="list-style-type: none"> ○ As Built P& I Diagrams. ○ As built Equipment Layout of Ground, 1st, 2nd floor & 3rd Floor etc. ○ Line Nos. & Valve Coding. ○ Checking of Pipe sizes. ○ Platform & Structure Measurements of each Plant. ○ Equipment Measurements. ○ Revise All Instrumentation Nos. ○ Tank Farm Area Piping Layouts. |
| 10 | Technip KTI Ltd. Andheri, Mumbai | Roncador Field Module 4 Deveopment. Area-P58 and P-62 Area. Offshore Job. | <ul style="list-style-type: none"> ○ 130 Lines Stress Analysis Documentation for P-58 Area. ○ 110 Lines Stress Analysis for P-62 Area. |

CHEMICAL INDUSTRIES PROJECTS

| Sr. | Client | Project | Scope of Work |
|-----|--|--|--|
| 1. | Em-G-Em Engineering Consultancy Pvt. Ltd. | 2 nd Indl. City, Dammam, Saudi Arabia | <ul style="list-style-type: none"> ○ Foundation & Reinforcement Design For 14pa6v280 Deutzpielstick DG Set Wt : 45T ○ Plant Layout. |
| 2. | Manaksia Ltd - Gandhinagar Gujrat | Installation of DG Set Wt : 132 T | <ul style="list-style-type: none"> ○ Foundation & Reinforcement Design For Wartsila DG Set Wt : 132 T ○ Plant Layout. |
| 3. | Indian Technomac Co. Ltd. - Himachal Pradesh | Installation of DG Set Wt : 132 T | <ul style="list-style-type: none"> ○ Civil & Architectural Bldg Design for DG ○ Building 30mx30mx10m DG ○ Foundation & Reinforcement Design for 6R3 Wartsila D.G. Set 3 Nos. ○ Foundation & Reinforcement Design for 36M High Chimney. ○ Foundation & Reinforcement Design for 250KL, 30KL 10KL. Tank. |
| 4. | BASF India Ltd. | Styroper Plant Basynton Plant Auxiliary Plant Pilot Plant ETP Plant Poly Urethane Plant ETP Plant Utility Plant Tank Farm Area | <ul style="list-style-type: none"> ○ As Built P&I Diagrams. ○ As built Equipment Layout of Ground, 1st, 2nd floor & 3rd Floor etc. ○ Line Nos. & Valve Coding. ○ Checking of Pipe sizes. ○ Platform & Structure Measurements of each Plant. ○ Equipment Measurements. ○ Revise All Instrumentation Nos. ○ Tank Farm Area Piping Layouts. ○ Factory Layout. Etc. ○ Fire Audit of Hydrant Lines in BASF Premises. |
| 5. | BASF India Ltd. | PU Plant Piping. | |
| 6. | Expanded Incorporation | PU Plant Piping. | <ul style="list-style-type: none"> ○ Equipment Layouts, Piping Rout Design, Isometrics, Supports, Bulk MTO. |
| 7. | Furnace Fabrica India Pvt. Ltd. | Calcination Plant Hindalco, (Muri) | <ul style="list-style-type: none"> ○ Equipment Layouts, Piping Rout Design, Isometrics, Supports, Bulk MTO. |
| 8. | Furnace Fabrica India Pvt. Ltd. | Sulphuric Acid Plant (Sable, Zinc, Zambia.) | <ul style="list-style-type: none"> ○ Equipment Layouts, Piping Rout Design, Isometrics, Supports, Bulk MTO. |
| 9. | SNC Lavalin Engineering Services. | Sumitomo Chemicals Ltd. Propylene Oxide Plant | <ul style="list-style-type: none"> ○ Preparation Of Piping Layouts For Propylene Oxide Plant Of Section 200 To 500. ○ Preparation Of Bom Of Propylene Oxide Plant For Section 200 To 500 |
| 10. | Mysoor Ammonia Ltd., Taloja | Ammonia Bottling Plant, Taloja | Prepared As Built Pipe Routing Plan & Supports. |

POWER SECTOR

| Sr. | Client | Project | Scope of Work |
|-----|--|--|---|
| 1. | Em-G-Em Engineering Consultancy Pvt. Ltd | 2 nd Indl. City, Dammam, Saudi Arabia | <ul style="list-style-type: none">○ Foundation & Reinforcement Design For 14pa6v280 Deutzpielstick DG Set Wt : 45T○ Plant Layout. |
| 2. | Manaksia Ltd - Gandhinagar Gujrat | Installation of DG Set Wt : 132 T | <ul style="list-style-type: none">○ Foundation Design For Wartsila DG Set Wt : 132 T○ Plant Layout. |
| 3. | Indian Technomac Co. Ltd. - Himachal Pradesh | Installation of 3 Nos. DG Set Wt : 132 T | <ul style="list-style-type: none">○ Civil & Architectural Bldg Design for DG Building 30mx30mx10m DG○ Foundation & Reinforcement Design for 6R3 Wartsila D.G. Set 3 Nos.○ Foundation & Reinforcement Design for 36M High Chimney.○ Foundation & Reinforcement Design for 250K 30KL 10KL. Tank. |

NUCLEAR POWER PROJECT

| Sr. | Client | Project | Scope of Work |
|-----|---|--|---|
| 1. | Walchandnagar Industries Ltd. , Baramati, pune. | Indira Gandhi Centre For Atomic Research through Walchandnagar Industries Ltd.- Prototype Fast Breeder Reactor | <ul style="list-style-type: none">○ Made Isometric Drawing For Installation of Piping on Plant. Total 700 Nos. of following Lines.○ Air Cooling Circuit Drawings.○ Nitrogen Circuit Drawings.○ Radio Active Gaseous Effluent Circuit Drawings. |
| 2. | Walchandnagar Industries Ltd. , Baramati, pune. | UNCF Project, Tarapur | <ul style="list-style-type: none">○ Calculated Bulk MTO for Project – Prototype Fast Breeder Reactor. Total 700 Nos. of Lines |

WATER TREATMENT PROJECTS

| Sr. | Client | Project | Scope of Work |
|-----|--|--|--|
| 1. | SFC Environmental Technologies Pvt. Ltd. | 105 MLD C-TECH Based Sewage Treatment Plant, At Balloke, Ludhiana Punjab Water Supply & Sewerage Board. | <ul style="list-style-type: none">○ Equipment Layouts, Piping Rout Design, Isometrics, Supports, Bulk MTO. |
| 2. | OPT Engineering Consultancy Pvt. Ltd. | <ul style="list-style-type: none">○ 70 MLD Sewage Treatment Plant, At Ukkadam , Coimbatore.○ 30 MLD Sewage Treatment Plant, At Sector-15, Ghansoli. Navi Mumbai○ 25 MLD Sewage Treatment Plant, At Pholriwal, Jalandhar (PB)○ 50 MLD C-TECH Based Sewage Treatment Plant, At Bhattian, Ludhiana | <ul style="list-style-type: none">○ Equipment Layouts, Piping Rout Design, Isometrics, Supports, Bulk MTO. |
| 3. | Gharpure Engg. & Constns. (P) Ltd. Pune. | 100 Mld Capacity Water Treatment Plant At Mohili, Kalyan. | <ul style="list-style-type: none">○ Equipment Layouts, Piping Rout Design, Isometrics, Supports, Bulk MTO. |
| 4. | Wipro Water Ltd. Rabale | Not Disclosed | <ul style="list-style-type: none">○ Piping Rout Design, Isometric And Supports at Wipro. |
| 5. | Ion Exchange India Ltd. Rabale | <ul style="list-style-type: none">○ Konkola Copper Mines, Zambia.○ O' Mon Thermal Power Plant Project. | <ul style="list-style-type: none">○ Piping Rout Design, Isometric And Supports |
| 6. | Gharpure Engg. & Constns. (P) Ltd. Pune. | 68 MLD C-TECH Based Sewage Treatment Plant, Deheradun. | <ul style="list-style-type: none">○ Equipment Layouts, Piping Rout Design, Isometrics, Supports, Bulk MTO. |

| | | | |
|----|--|-------------------------------|--|
| 7. | Deepak Fertilisers And Petrochemicals Corporation Limited | Cooling Tower For CNA-3 Plant | o Detail Engineering For Cooling Tower For CNA-3 Plant |
|----|--|-------------------------------|--|

MECHANICAL PROJECTS

- ❖ **Yuppa Vally : MIDC Pawne, Navi Mumbai.**
Project : Providing Platform for Air Conditioner Chamber
 - o Structural Design, Fabrication & Erection.
- ❖ **Laco Infrastructure Pvt. Ltd., Navi Mumbai.**
 - o Structural Design of Market Shed with Stability Certificate.
- ❖ **S. P. Fabricators Pvt. Ltd.**
 - o Fabrication & Erection of Wall Mounted Box Tube Structure for Hotel Sofitel BKC, Mumbai. 15 Ton
- ❖ **Triofab India Ltd. –**
 - o We are doing Vessels and Heat Exchangers Fabrication Drawings Since Last 12 Yrs.
 - o 25 Nos. of Heat Exe. For Technimont ICB Ltd.
 - o 23 Nos of Heat Exe. For Reliance Industries Ltd.
 - o Development and Fabrication Drawings of Heat Duct for Reliance Industries Ltd. Project.
 - o **`N' Numbers of Chemical Equipments for Various Fabricators Since Last 12 Years.**
- ❖ **Calculation of BULK MTO**
 - o Calculated 2000 Pipe Lines Bulk MTO for Sumitomo Chemicals Ltd.
 - o IOCL (Gujarat) – Completed Bulk MTO of Fire Hydrant Layout.
 - o Swastik Heavy Engineering-Mulund – Calculated Bulk MTO of Bell Annealing Furnaces Piping Project. 44 Nos. Furnaces.
 - o Bulk MTO for ION Exchange Ltd.
- ❖ **STRUCTURAL DETAILING.**
 - o Pipe Rack Structural Fabrication Detailing Drawings for HPCL. Mahul, Mumbai
 - o Pipe Rack Structural Fabrication Detailing Drawings for CABOT India Ltd.
 - o Pipe Rack Structural Fabrication Detailing Drawings for Trimurti Engineering Pvt. Ltd.
 - o Drill Rig Cabin Structure Design for ONGC Sagar Gaurav Rig.

REVERSE ENGINEERING PROJECTS

Successfully Completed Reverse Engineering of Cup Machine for Plus Paper Food Pack Ltd. TTC MIDC Navi Mumbai.

- o Made Freehand Sketches of Each Cup Machine Parts. (16 Unit - 2000 Parts)
- o Taken Measurements Of Each Components. (Unit Wise)
- o Conversion Of Free Hand Sketches To Cad Drawings. (Unit Wise)
- o Given Tolerance and Aligned System Assemblies. (8 Units)
- o Checking. (Unit Wise)
- o Taking Final Printout of each unit of Cup Machine. (Unit Wise)
- ✓ **Octagonal Shape Center Table for Diversion of Ultrasonic Beam For BARC.**
 - o Total System Development Drawings and Detailing as per Given Sketches.
 - o Align the Unit Assemblies and Made Prototype of Center Table.
- ✓ **Reverse Engineering of Spot Coating Printing Machine for A1 Industries, Govandi, Mumbai.**
 - o Total System Development Drawings and Detailing as per Given Sketches.
 - o Generate 3D Model of Spot Coating Printing Machine.
 - o Development of CAM.

- ✓ **Reverse Engineering of Bending Machine for Bend & Fab Ltd. Mahape, Navi Mumbai.**
 - Total System Development Drawings and Detailing as per Given Sketches.
 - Made G. A. and Fabrication Drawing for manufacturing.
- ✓ **Reverse Engineering of Pipe Annealing Machines for Allied Consulting Engineers Pvt. Ltd.**
 - Total System Development Drawings and Detailing as per Given Sketches.
 - Made 3D Model of Total System and Made Slide Files for Presentation.
- ✓ **Design & Detailed Engineering of Structure for Lifting of 130 Ton Secondary Reformer. Zuari, Goa**
- ✓ **Design & Detailed Engineering Trolley Structure for Lifting of 60 Ton GAS Compressor. For Reliance Infrastructure Ltd.**
- ✓ **Design & Detailed Engineering Structure for Holding of 25 Ton Scrubber. For Zuari, Goa.**
- ✓ **Design & Detailed Engineering 7M Long x 6.3M Wide x 3.5M High Transformer Cabin (Power Temple) for Bandra Worli Sea Link.**
- ✓ **Design & Detailed Engineering 3 M x 3 M x 6M High Trolley Structure for Akzo Nobel Chemicals (India) Ltd., Mahad, Maharashtra.**
- ✓ **Design & Detailed Engineering 6.5M High Trolley Structure for Akzo Nobel Chemicals (India) Ltd. Mahad, Maharashtra.**
- ❖ **Total Cost & Estimation of 20 Nos. Large size Storage Tank (20 M Dia. To 60 M Dia.) Floating Head & Cone Roof Tanks. For IOCL.**
- ❖ **Total Detailing & Weight Calculation of Ladder, Platforms & Grating for Columns, Chimney, & Storage Tanks for IOCL, Reliance Industries Ltd., L & T Through R. D. Engineers, Trio Fab India Ltd., Geecy Engineering Pvt. Ltd.**

FIRE FIGHTING PROJECTS :

- ❖ **SRM Urban Infrastructure**
 - The Only Green Building Project In India - Totally As Per International Standards :-**
 - Design, Drawings of Fire Detection, Alarm and protection System.
 - Design Engineering of CCTV surveillance system.
 - Made Sprinkler Layouts, Fire Hydrant Layouts ,Pump Room Layouts for Total Bldg. Floors.
- ❖ **BASF India Ltd.**
 - ❖ Project : Providing Fire Fighting System for Four Storey SATCL Building.
 - Design, Erection, Installation & Commissioning.

Today After A Successful Period Of Growth & Consolidation. We Are Confident That We are in a Position To Meet Your Requirements For Designing & Detailed Engineering Works In Terms Of Quality And Commitments.

We Request You To Give Us An Opportunity To Register Us As One Of Your Approved Vendor & Provide Our Best Services At All Time.

Thanking you,
Yours faithfully,

For **R-CAD Drafting & Consulting Engineers**

R.C. Badekar

R.C. BADEKAR
Proprietor