

PERSONAL DETAIL

Name	Hemantkumar Khodidas Prajapati
Address	61, Vasant Vihar Society Vibhag-1, Kathwada Road, Naroda, Ahmedabad – 382330
e-mail:	hemantprajapati35@gmail.com
Mobile No	+91 98240 00489
Profession	Senior Piping Designer (Mechanical / Piping)
Position in Group	Sr. CAD Designer – Piping
Nationality	Indian
Year of Birth	09th August 1978

KEY QUALIFICATIONS

Has extensive experience of 24+ years in Basic and Detail Engineering of Industrial Plants following as under.

- Personal Care Consumer Product- Soap Plant Facility,
- Chemical / Crude oil Storage Tank farm, Pump House & Tanker Loading/ Unloading Facility
- Process and Utility Piping for Chemical Plant
- Bulk Drug / Pharmaceutical Plant Process and Utility Piping
- Edible Oil Refinery and Storage Tank farm / Pump House
- Liquid Transfer from Jetty to Storage Terminal Facility
- Petrochemicals Plant like as POY / FDY & CPP Plant
- Residual Gas Transmission Piping (Receiving / Despatch & Tap-off Stations)
- Colour Chemicals / Pigment Plant Piping
- LPG Terminal Facilities

Experience in Detail Engineering drawings of Mechanical/ Piping with capabilities in the following activities:

- Review Vendor Detail and Other Discipline drawing
- Co-ordination with inter Discipline
- Modelling of Equipment and Piping in AutoCAD Plant -3D
- Preparation of Equipment and Piping Layout and Detail – 2D
- Preparation of Nozzle Orientation Detail -2D
- Preparation of Piping Isometric (Extraction from 3D model)
- Preparation of Piping BOQ (MTO)
- Site visit for Data Collection

COMPUTER PROFICIENCY

- **Piping Software: AutoCAD Plant -3D, AutoCAD Plant -3D Spec Editor (Since 2014)**
 - Fully conversant with Drafting Software AutoCAD -2018
 - MicroStation SE
 - Piping Software: SS Pipe 2008 – (System Setter Pipe)
 - Piping Software: Bentley – Auto Plant V8i
 - MS Office
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EDUCATION AND PROFESSIONAL STATUS

- ITI Mechanical Draftsman, NCTVT, 1995
 - Apprentice Mechanical Draftsman, NCTVT, 1996
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EXPERIENCE RECORD

2005 – present MOTT MACDONALD GROUP

2005 – present Senior CAD Designer – Piping, Industry Consultancy, Ahmedabad, India

Noodle Facility Design – Nestle Ltd.,

The work involves – Preparation of Piping layouts/3D models of process plant and OSBL pipe rack.

P2 Expansion – SRF Ltd. Dahej, Gujarat.

The work involves – Preparation of piping layout of Pipe rack Key plan, Main Plant and IBR Isometric layouts.

PL6 Plant – Paushak Ltd.

The work involves – Preparation of 2d equipment layouts of Main plant.

Wind Turbine Assembly Design - Siemens Ltd.

The work involves – Preparation of equipment & piping layout of Main plant building, Raw/RO Water area, ETP Area, HSD Area, Compressor Room and yard pipe rack.

Feed Stock Plant - SRF Ltd. Dahej, Gujarat.

The work involves – Preparation of Equipment/Piping layout of Main plant, pipe rack key plan and Tanks farm.

Project Gold – Arti Industries Ltd., Dahej, Gujarat,

The work involves – Preparation of equipment layouts of process plant, piping 3d Model of riser area and pipe rack of process plant.

Greenfield Fabrication Facility – JCB India Ltd., Halol, Gujarat,

The work involves – Preparation of Piping layout/3D model of Main plant and pipe rack key plan

Wipro Consumer Care Facility – Wipro Personal Care Private Ltd., Maheshwaram, Ranga Reddy District, Telegana, India

The work involves – Preparation of equipment/piping layout, 3d models of Raw oil tank farm, Intermediate tank farm, CSP tank farm, Utility tank farm area, tie-in point of FAGP/TSP/CSP building, cooling tower of CSP/TSP plant, FO tank farm area, Tanker loading-unloading area and yard pipe rack.

Liquid Terminal-3 Tank Farm (Phase-3) Expansion for Adani Hazira Port Pvt. Ltd. (AHPPL) at Hazira, Surat – Encloser-11, 12, 13

The work involved – Preparation 3D model and 2D GADs of Equipment / Piping Layouts and Sections, Pipe Support details of tank farm, Pump House, Tanker Loading Facility, Unloading Facility, Manifold Area.

Overall key plan of sleepers and pipe Rack of Jetty / Dock lines.

Details engineering drawing for sleepers and pipe Rack of jetty / dock lines 4 nos. cup pig Station and 1 no. form pig launcher / receiver station.

**Cross Country Pipe Line – 2500 TPD Edible Oil Refinery to Hazira Port - Adani Wilmar Ltd.
At Hazira, Surat**

The work Involved updation of alignment drawings of 14" x 2 km long pipe line route as requirement, Preparation of overall pipe rack layout and sections drawing and Detail GA Layout and Section Drawings for inside Adani Hazira Port Ltd

Greenfield Injectable Facility for Puniska at Pipan, Sanand- PSP Projects Limited, Ahmedabad

The work Involves Preparation of pipe rack layout, Utility Distribution Layout to Room and AHU. Preparation and updated Plant 3D model as per P&ID, Piping Specification Updated in Plant Spec Editor, Isometric Extraction.

Potent Plant, at Dehradun - Intas Pharmaceuticals Limited, Dehradun, Uttarakhand, India

The work Involves Preparation of Conceptual Piping Layout for Yard Pipe Rack, Conceptual Piping GAD of Utility Distribution in the Plant for Room Service and AHU (2 Floors), Pipe Riser and internal Pipe rack

Hormone Plant at Dehradun - Intas Pharmaceuticals Limited, Dehradun, Uttarakhand, India

The work Involves Preparation of Conceptual Piping Layout for Yard Pipe Rack, Conceptual Piping GAD of Utility Distribution in the Plant for Room Service and AHU (2 Floors), Pipe Riser and internal Pipe rack, IBR Isometric Drawing

Gujarat Microwax MCC Project at Kadi - Gujarat Microwax Pvt Ltd, Mehsana, Gujarat, India

The work Involves Preparation Equipment Layout of Main Production Building, Yard Pipe Rack Layout and Sections. Preparation of Equipment and piping Layout in 3D model of Main Plant Building, Yard Pipe Rack, Preparation Piping Specification in Plant 3D Spec Editor

Formulation Plant at Matoda - Intas Pharmaceuticals Limited, Ahmedabad, Gujarat, India

The work Involved Preparation of 3d Model and 2d Piping Layout for Yard Pipe Rack, Piping GAD and 3d Model of Utility Distribution in the Plant (3 Floors), IBR Isometric Layout and BOQ, Equipment and Piping Layout of Utility Block.

2500 TPD Edible Oil Refinery Project, Adani Wilmar Ltd, Shivrampur Village, Surat

The work Involved Preparation of Equipment / Piping Layout and Sections for FO and HSD Tank farm (Capacity 300MT), Pipe Rack. 3D modelling in Auto Cad Plant3D. Checking models on Navisworks. The work Involved Preparation of Key Plan and Section for Cross Country Pipe Line (Route Length 11.2Km Lg. AWL to AHPPL)

1500 TPD Edible Oil Refinery Expansion, Adani Wilmar Ltd, Dhrub, Mundra

The work Involved Preparation of Equipment / Piping Layout and Sections for Glycerine Tank farm (Capacity 2550MT), Acid Oil Tank Farm (Capacity 547MT) and Pipe Rack. 3D modelling in Auto Cad Plant3D. Checking and review models on Navisworks.

Process Plant & Warehouse, CCR-III, Hindalco Industries Limited, (Unit Birla Copper), Dahej

The work Involved Preparation of Equipment / Piping Layout and Sections and BOQ for Cooling Tower area, Process Plant, Compressor area and Pipe Rack. 3D modelling and Piping specification in Auto Cad Plant3d for all Piping. Checking and review models on Navisworks.

Naroli Polyester Complex-Phase II, Bhilosa Industries (P) Ltd., Naroli, Silvassa, (U.T.)

The work Involved Preparation of Equipment and Piping Layout for Cooling Tower (582m³/hrx14 Nos. FRP-RCC Basin) and VAM (800TRx4 Nos.) at terrace Floor of CP Plant Building.

Vegetable Oil Storage Tank Farm, Global Oil Terminal and Warehouse, Beira, Mozambique

The work Involved Preparation of Equipment / Piping Layout and Section for Vegetable Oil Storage Tank Farm (Capacity 24,000MT), Tanker Loading / Unloading Facility, Utility Building, FO Tank Area, ETP Area. - 3D modelling in Auto Cad Plant3d for TLF. Checking and review models on Navisworks.

Augmentation of Facility -Plant U3 & U4, Oriental Carbon & Chemicals Limited, Mundra SEZ

The work Involved Preparation of Equipment / Piping Layout and Section, Isometric, BOQ for Main Plant Building, Hot Utility Area, Cold Utility Area, CS2 Dyke Area, Yard Pipe Rack, Layout of Pipe Rack and Section. 3D modelling in Auto Cad Plant3D for all Piping.

Liquid Terminal Expansion, Enclosure-17, APSEZ, Mundra, Gujarat, India

Involve in Preparation of Equipment / Piping detail drawings of Tank Farm (Capacity 60,000 KL), Pumps house, Tanker Loading/Unloading and Pipe Rack.

AHPPL Berth – 4 Adani Hazira Port Pvt. Ltd., Hazira, Gujarat, India

The work Involved Preparation Key Plan of Pipe Rack, Piping Layouts and Section Details, Isometrics and 3d Model for Proposed Dock / Jetty Lines from Existing Dock Lines to 3nos. Liquid Pit of Berth– 4

Pipe Re-routing Project, Eastern Berth – 4, APSEZ Pvt. Ltd., At Mundra, Gujarat, India

The work Involved Preparation Key Plan of Pipe Rack, Piping Layouts and Section Details, Isometrics, BOQ, and 3D Modelling, also prepared Details for Pig Station of Form Pig Launcher / Receiver, Crossover, Trestle Pipe rack and Piperack Below Jetty Platform

14TPH Boiler House Facility, Mundra – Oriental Carbon and Chemicals Limited

The work Involved Preparation equipment/piping layouts for yard pipe rack – key plan, raw water tank, boiler area.

Liquid Terminal-2 Tank Farm (Phase-2) Expansion for Adani Hazira Port Pvt Limited (AHPPL) at Hazira, Surat (Enclosure -5, 6, 7, 8, 9, 10) – Preparation of equipment/piping layouts, sections, pipe support details of tank farm, pump house, tanker loading facility, unloading facility, overall key plan of sleepers and pipe rack of jetty/dock lines, detail engineering drawing for sleepers and pipe rack of jetty/dock lines three cup pig and form pig launcher/receiver stations.

10 TPD Bromine Plant, Nirma Limited, Kalatalav, Bhavnagar, Gujarat – Preparation of equipment/piping layouts for yard pipe rack – key plan, bromine storage area, bromine packing area, bittern intakes area and bittern transfer tank farm.

Expansion of Liquid Terminal -1 Tank Farm (Phase-I) for Adani Hazira Port Pvt Limited

(AHPPL) at Hazira, Surat – Encloser-4A and 4B – Involve in preparation of piping layouts and details of 5km long sleepers and cross-over for jetty lines, manifold philosophy at trestles, form pig stations, cup pig stations near jetty, liquid pits detail, manifold philosophy at pump house of Enclosure-4A for multipurpose berth-1,2,3 (1km long jetty platform with three trestles).

Naroli Polyester Complex Phase 1 – Bhilosa Industries (P) Limited, Naroli, and Silvassa – The work involved preparation of equipment/piping layouts, sections, pipe support details of water treatment plant area, piping layouts and sections for POY building, CP Building, FDY building, steam boiler area, MEG tank farm area and overall pipe rack, HTM Lines of Dow-therm (reboiler).

POY Expansion at Kim – Nakoda Limited – The work involved preparation of layout and sections of piping for VAM, VCM and cooling tower, pipe rack, piping layout and details for chilled water distribution of quench and take-up AHU area.

Vegetable Oil Refinery Project – Bunge India Pvt Limited at Mahalaxmi, Kutch – The work involved preparation of equipment/piping layouts, and sections, pipe support details of tank farms and pump house area, tanker loading facility for raw material finished goods.

Oleo Chemical and Soap Plant for Adani Wilmar Limited at Mundra, Kutch – Preparation of equipment/piping layout of chillers area and cooling tower area, overall pipe rack layout and sections.

Liquid Terminal Tank Farm (Phase-I) for Adani Hazira Port Pvt Limited (AHPPL) at Hazira, Surat – Involved in preparation of equipment layouts, layout and sections, pipe support details, piping isometric and BOQ for tank farms, pump house area, three tanker loading facilities, three multipurpose berths (jetty), overall pipe rack, utility block and raw water tank.

Gas Pipeline Residual Engineering- Bhavnagar and Botad Spurline for GSPL, Gandhinagar (on behalf of Jay Somnath Iron Works) – Preparation piping layouts, sections and details, pipe support details, isometric drawings and line wise BOQ of despatch station and receiving station of Bhavnagar spurline.

Preparation piping layouts, sections and details, pipe support details, isometric drawings and line wise BOQ of despatch, tap-off and receiving stations of Botad spurline.

Chemical Plant for Oriental Carbon and Chemicals Limited at Mundra SEZ – Preparation of equipment layouts, piping layout and sections, pipe support details, nozzle orientations of crude sulphur holding tank, raw sulphur tank, refiner and economiser for hot sulphur recovery area.

SPIL 2W E/G Plant for Suzuki Powertrain India Limited at Manesar – Preparation of P&IDs, piping layout and sections, pipe support details for utility distribution, fire protection system of production hall.

1000TPD Edible Oil Refinery Expansion for Adani Wilmar Limited at Mundra, Gujarat – Preparation of equipment layouts, overall pipe rack layout and sections, piping layout and sections, pipe support details, nozzle orientations for various tank farm and pump house area.

POY and CP Plant for Nakoda Textile Industries Limited at Karanj near Surat – Preparation of equipment layout, piping layout, sections and details for spinning plant building, MEG/FO storage tank farm, VAM and VCM area.

600TPD Edible Oil Refinery Expansion for Adani Wilmar Ltd at Haldia, West Bengal – Preparation of piping flow diagram, P&I diagram, equipment layouts, overall pipe rack layout and sections, piping layout and sections, pipe support details, nozzle orientations for various tank farm and pump house area.

POY Plant Expansion for Bhilosa Industries Pvt Limited at Silvassa – Preparation of mechanical datasheets and fabrication drawing for 500m³ PTA silo and 150m³ polymer chips silo.

Bio-refinery Plant (Furfural and Furfural Alcohol) for Arcoy Bio-Refinery Pvt Limited at Panoli, Gujarat – Piping draftsman. Preparation of piping GA layout, piping section layout drawings, and pipe support details for steam distribution from super-heated steam header (boiler and steam turbine area). has also prepared equipment GA layouts, piping GA layout drawings, pipe support details and nozzle orientation, final BOQ furfural and furfural alcohol tank farm. Revised piping GA drawing and isometric drawings as per stress analysis comments.

POY/FDY Plant Expansion for Garden Silk Mill Ltd., Surat, Gujarat – Piping draftsman. Generated equipment GA layouts, piping GA layout drawings, pipe support details and nozzle orientation, piping isometrics and BOQ of HTF-evaporators area and liquid HTF area for POY/FDY expansion.

Performance Coatings Plant Expansion for EI DuPont India Pvt Limited at Savli, Gujarat – Piping draftsman. Preparation of equipment GA layouts, piping GA layout drawings, pipe support

details and nozzle orientation for bulk solvent/resin transfer unloading system (tank farm). Checking and revising internal process/utility piping drawings and generating piping BOQ of process and utility piping for DuPont performance coatings plant.

Bismuth Removal Plant for Hindalco Industries Limited, Dahej – Piping draftsman. Preparation of equipment GA layouts, piping GA drawing of Bismuth removal area (also preparation of equipment/piping 3D model on SS-Pipe Software).

Residual Engineering of Spur Pipeline for GSPL (Jay Somnath Iron Works) – Piping draftsman. Preparation of piping GA drawing, isometric drawings, final bill of material, pipe support details of pig despatch and receiving terminals at Tundav and Alwa.

Intermediate Chemical Plant (P2 Plant) for SRF Limited at Bhiwadi, Rajasthan – Piping draftsman. Preparation of equipment GA layouts, conceptual piping layout of P2 plant.

Cross Carmellose Sodium Plant for Gujarat Microwax Limited, at Nandasan, Gujarat – Piping draftsman. Preparation of equipment GA layout for various unit as a main plant/boiler area, chillers room, ethanol recovery plant, piping GA layout for cooling tower, conceptual yard piping GA layout, datasheet for storage tanks and day tanks, nozzle orientation for tanks.

GSPL-NG Compressor Package Olpad, Surat – Piping draftsman. Preparation of a P&I diagram, equipment GA layout, plot plan, piping GA drawing, piping BOQ for 12" NG pipeline; also prepared firefighting piping GA drawings with fire water pump house.

Chemical Intermediate Plant – Pilot Plant for SRF Limited at Bhiwadi, Rajasthan – Piping draftsman. Preparation of yard piping GA, plant piping GA, pipe rack sectional details, internal plant piping GA, piping details for utilities manifolds, isometrics for steam line, isometrics and BOQ for CS-PTFE lines, piping GA for acid and intermediate tanks farm, piping BOQ for pilot plant, pipe support details.

Otsuka Fine Chemicals (India) Limited – Sterile Bulk Plant – Jaipur, Rajasthan – Piping draftsman. Preparation of equipment layouts, Nozzle orientation drawing for various process equipment as a Glass Lined reactors, tanks, heat exchangers, decanter, dryer, centrifuge. Preparation of plant piping GA layout for process and utilities, Sections for internal rack piping and BOQ of piping.

LPG Terminal Facility, NIPCO/PBL, (IOTL) Nigeria – Piping draftsman. Preparation of equipment layouts and piping layout for Horton sphere area, LPG/air compressors and LPG pumps in room, tanker loading and unloading, yard piping, sphere piping, manifold for all sphere operating valves, nozzle orientation and BOQ of piping.

MS/HSD Upgrade for Indian Oil Corporation Limited, Gujarat Refinery, Vadodara – Piping draftsman (site deputation). Preparation drawings, showing tie-in point location for their proposal and expansion of units like LPG storage bullets, tanker/wagon loading/unloading facilities, hydrogen generation unit, sulphur recovery unit, expansion of utility services like cooling towers, air compressor house, CW/RW pump house, drinking and service water pump house. Proposed DHDT unit, cryogenic nitrogen plant, storage tanks for high speed diesel-naphtha, and other services in piping layout for preparation of tendering document, required to be submitted as a part of PMC project.

Dope Dyed PFY Plant for Pioneer Embroideries Limited at Kala Amb, Himanchal Pradesh – Piping draftsman. Preparation of piping general arrangement drawings for utility services rack piping, nozzle orientation for vessels, piping support schedule and preparation of final bill of quantity (BOQ) for the piping work.

Clarion-5 Cephalosporin Plant for Claris Life Science Limited, at Changodar, Ahmedabad. – Piping draftsman. Preparation of plant piping general arrangement drawings, piping isometric drawings, piping support schedule and preparation of final BOQ for the piping work.

Gas Metering Skids for Radicon Gulf Consultants-Industry Division, Saudi Arabia (Owner: Saudi Aramco) – Preparation of Instrument loop diagrams for sales gas and propane gas metering as per Saudi Aramco Standard.

Clarion-4 IV Injectable Formulation Plant for Claris Life Science Limited, at Changodar, Ahmedabad– Piping draftsman. The scope involved was preparation of plant piping general arrangement drawings, piping isometric drawing for IBR medium pressure steam line, piping support schedule and preparation of final BOQ for the piping work.

2MW Capacity Captive Power Plant (Co-generation) for Claris Life Science Limited, at Changodar, Ahmedabad – Piping draftsman. Preparation of P&I diagrams, plant piping general arrangement drawings, piping isometric drawings, piping support schedule and preparation of final BOQ for the piping work.

Bulk Drug and cGMP Pilot Plant for Rubamin Pharmaceuticals Limited, at Dhabasa near Baroda – Piping draftsman. Preparation of piping general arrangement drawings and final BOQ for kilo-lab area and utility yard pipe rack. The work also involved periodical site visits for preparation of as-built piping GA and isometrics.

Blue Finishing Plant for Heubach Colour (India) Pvt Limited, at GIDC Ankleshwar – Piping draftsman. The scope of work involved preparation of detailed working drawings for Blue finishing plant and utility yard piping, piping general arrangement, isometric drawings, pipe support schedule and preparation of final BOQ for the piping works. the work also involved site visits for preparation of as-built piping GA and isometrics.

Gas Pipeline Residual Engineering- Kalol – Himmatnagar Gas Pipeline for GSPL Gandhinagar (on behalf of Jay Somnath Iron Works) – Piping draftsman. The scope of work involved was to prepare detailed working drawing for despatch station, two SV stations and two receiving stations, piping general arrangement, isometric piping drawings, final BOQ, skid arrangement, pipe support schedule and plot plan. Site visits for preparation of as-built piping GA and isometrics.

Performance Pigment Project (EUSA-II) for Eusa Pigments Pvt. Limited at Ankleshwar (Gujarat) – Preparation of material specification and datasheet and equipment nozzle orientation drawing for utility tanks.

**2002 – 2005 CHIRIPAL PETROCHEMICALS LIMITED (CHIRIPAL GROUP)
Mechanical Draftsman/AutoCAD Operator, Ahmedabad, India**

During the three years' tenure with the organisation, has worked as a mechanical draftsman in the Project Department. The nature of work involved preparation of piping general arrangement drawings, piping isometric drawings, plant layout plan, piping and instrument diagram, electrical diagram, equipment layout for petrochemical industry (POY/FDY plant) and denim plant.

**1999 – 2002 AVI GINNING MACHINERY PVT LIMITED
Mechanical Draftsman/AutoCAD Operator**

Worked with this company for three years as a mechanical draftsman. The company is involved in manufacturing machinery and machine parts for ginning plants. The work involved was preparation of drawing for precision parts detailing, machine assembly drawing, general arrangement drawings, fabrication drawing, erection and foundation drawing, equipment layouts, electrical drawing, site layout plan.

1996 – 1999 TRIVENI ENGINEERS AND HARSH ENTERPRISES
Mechanical Draftsman/AutoCAD Operator

During the tenure with this company, prepared drawings for precision parts detailing, machine assembly drawing, fabrication drawing, erection and foundation drawing, general arrangement drawing, designing and development drawing, electrical drawing for weaving machinery.

1995 – 1996 INGERSOLL-RAND (INDIA) LIMITED
Mechanical Draftsman (Apprentice), Ahmedabad, India

Worked with Project Engineering Department as an apprentice mechanical draftsman. The work involved preparation of general arrangement drawings of equipment, equipment layouts, piping GA and isometrics layouts, parts and components drawing, BOQ for pipeline. Also prepared drawing for Instructions Book of Part List and Operating Manual.

LANGUAGE CAPABILITY

Gujarati : Mother tongue
English : Spoken – fair; written – fair, reading – good
Hindi : Spoken: fluent; written: good; reading: good