

# DAHEJ PCPIR

The Government of Gujarat declared a policy for Petroleum, Chemicals and Petrochemicals Investment Region in May 2007. As per this policy, Dahej area was selected by Government of Gujarat and the area of 453 sq. km. of 44 villages of Vagra and Bharuch districts were covered under PCPIR. So that the services, facilities and infrastructure related to the production of petroleum, chemicals and petrochemicals are to be developed in this 453 sq. km. area.

The region is located between 21' 36' 37" North Latitude and 21'54'8" North Latitude and between 72' 29' 48" East longitude and 72' 57' 30" East longitude.

The land of 44 villages included in PCPIR are (1) Argam (2) Vorasamni (3) Vilayat (4) Beshram (5) Saikha (6) Kothiya (7) Vahiya (8) Pipaliya (9) Pakhajan (10) Nadarkha (11) Sambheti (12) Janiyadra (13) Akhod (14) Nandida (15) Sadthla (16) Khobjal (17) Bhensali (18) Atali (19) Galenda (20) Samatpor (21) Vav (22) Jolva (23) Vadadala (24) Dahej (25) Lakhigam (26) Luvara (27) Jageshwar (28) Ambheta (29) Suva (30) Rahiyad (31) Koliyad (32) Vagni (33) Kaladra (34) Amleshwar (35) Bhuva (36) Eksal (37) kesrol (38) Navetha (39) Manad (40) Mahegam (41) Bhadbhut (42) keshva-Samni (43) Vadva (44) Sankhavad.

In this area the land of these villages are in close proximity to the sea, causing salinity and due to this fertility level of land is found to be very low.

There are PCPIR in some of the states in the



country. They are developing too. But the speed of the development is very low. Comparing to them the development at Dahej PCPIR is the fastest one. So the Government is taking interest in its rapid development. Here the SEZ is also developed fast and became first in the existing SEZ-1 in this 1800 hector land. While the SEZ-1 also has been constructed, C-2 and C-3 plants became active.

According to the policy of PCPIR, (1) Roads (National & state level), (2) Railway, (3) Sea-ports, (4) Gas grid connectivity, (5) Gas Connection, (6) Availability of water, (7) Disposal of solid waste, (8) Telecommunication, (9) Greenbelt and (10) Air routes like infrastructure and in residential colonies social infrastructure and educational institutes, Health Services and other services are included.



## DAHEJ IS WELL CONNECTED WITH TRANSPORTATION



National highway number 8 is passing through Bharuch. PCPIR is one kilometer away from Bharuch. There is 6 lane roads between Bharuch and Dahej. There is a four-lane road

from Bharuch to Vilayat. One can reach Dahej from Vadodara via Padra-Jambusar, so Dahej is nicely connected with the road transportation facility.



## TOLL BOOTH

Toll tax collection is going to be restarted from 7th Feb. 2017 by the State Road and Housing Department. A toll booth has been activated near 227/500 Keshrol Village on Dahej Road state high way no. 8. This toll booth is made active by R&B for the maintenance and

taking care of road of 48.2 km between Bharuch and Dahej. The toll tax will be taken for the vehicles having two to seven axels. Although, all vehicles having passing GJ-16, have been waived from Toll Tax.





# RAILWAY INFRASTRUCTURE

According to the policy of PCPIR, the Central Government is to connect this area to Railway. Previously narrow gauge railway was there from Bharuch to Dahej. But as the time passed due to

started at a rapid speed and it was made active in 2012. At present, a train runs to and fro between Bharuch and Dahej once a day.

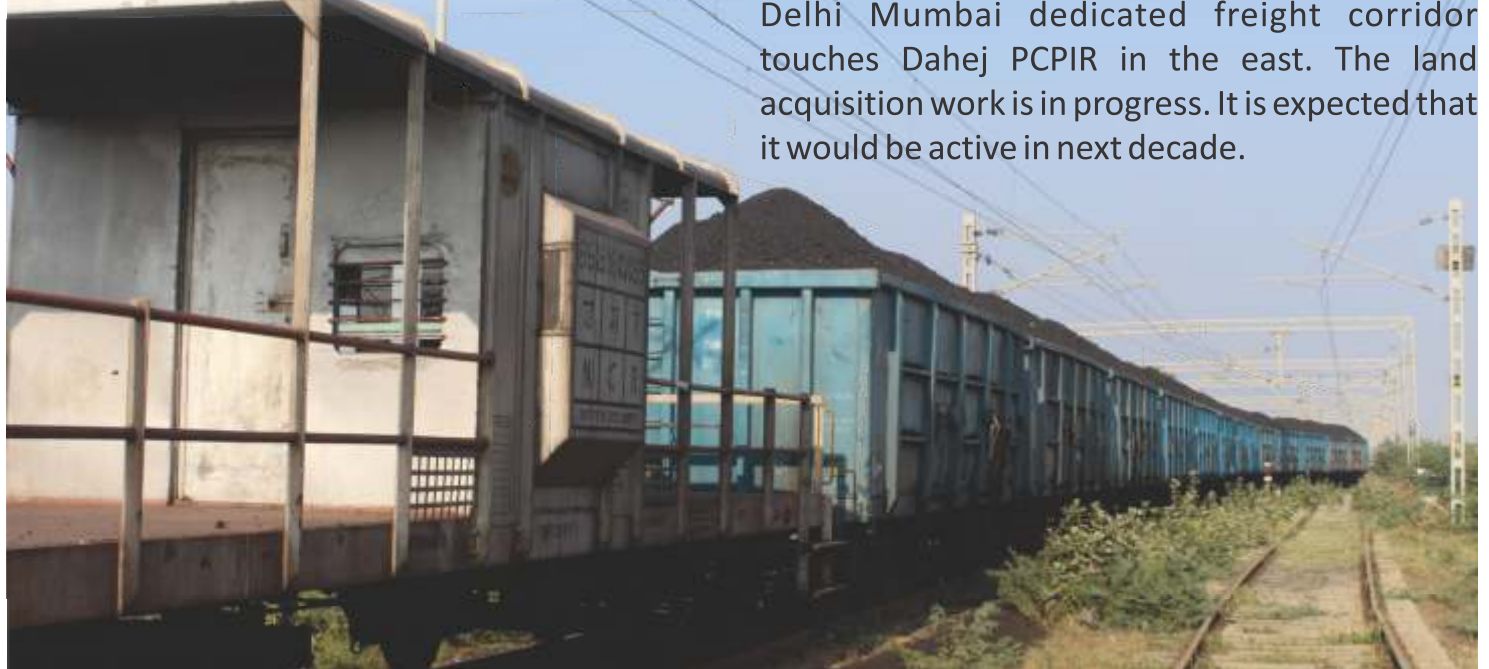
The main work of transfer of coal imported by



mismatching of time, it was stopped.

The Hon'ble Railway Minister of Government of India then decided to convert the 63 km narrow gauge to broad gauge line immediately. To perform this, a company named, the Bharuch Dahej Railway Company Limited was established which will undertake gauge conversion and its monitoring.

Bharuch Dahej Railway line work was



Adani is done. For this purpose, Adani Company has installed a line from Dahej Railway station to Coal Yard.

Dahej will be connected to Amdavad-Mumbai main broad gauge line by this railway line. So that the railway has a transport facility to connect the employees and company related people from other states to Dahej. Especially the railways become a very important facility to suppliers, traders and service providers. Delhi Mumbai dedicated freight corridor touches Dahej PCPIR in the east. The land acquisition work is in progress. It is expected that it would be active in next decade.

## AIRPORT FACILITY



SURAT



AHMEDABAD



BHAVNAGAR



VADODRA

Ahmedabad international airport is 250 km away from Dahej PCPIR, whereas the Domestic Airport, Vadodara is 90 km away and Surat is 85 km away. Besides, an Airstrip had also been sanctioned at Amarapura village on Bharuch - Ankleshwar Highway. It

has been cordoned by the wall. The land is leveled. It is expected that in coming days, after finishing work it will be activated. No doubt, Bhavnagar airport can also be used since Ro-Ro ferry service connecting Dahej with Bhavnagar has been started.



## WATER FACILITY

A 25 MGD pipeline has been installed in River Narmada at Angareshwar to provide water to Dahej PCPIR. This is in working condition. 25 MGD NAND pipeline has been activated.

The work of 50 MGD water pipeline is at the last stage of finishing at Miyagam branch canal from Narmada Canal. This will be commissioned shortly.





## RESIDENTIAL COLONY



The residential area is under construction on Dahej-Bharuch road at Atali. Some companies have made their residential colonies there and construction by some of the companies is going on. The facilities for them are being provided.



## ELECTRICITY NETWORK

Two substations of 220 KV each are installed at Dahej and Vilayat. Substations of 66 KV are made active at seven places viz. Dahej, Luna, Bhensali, Vilayat, Vadadala,

Gelanda and Sambheti. Substations of 220 KV are made active by GETCO at Dahej and Suva. Torrent Power is going to install gas-based power plant of 1600 megawatt at SEZ-1, out of which a plant of 400 megawatt has been working.

A coal-based power plant of 2640 megawatts is to be installed by Adani. Work is in progress.

The work is on to construct substations one of 220 KV and seven of 66 KV each at Dahej PCPIR.



# FACILITY OF PIPELINE OF 90 MLD IN THE DEEP SEA FOR THE DISPOSAL OF EFFLUENT

There is an arrangement in Dahej PCPIR for treatment and disposal of effluent, in which an HDPE pipeline of diameter 710 mm from Vilayat to Dahej final pumping station Plot no. 13/A is installed. HDPE pipeline of 1000 mm diameter, from Dahej final pumping station to landfill point

up to 10 km is installed. Also, a carbon steel pipeline of 4.38 km is installed from landfill point to Diffuser, in which capacity to dispose Effluent of total 90 MLD (25 MLD of Vilayat and 65 MLD of Dahej) is done.



# FACILITY OF INCINERATOR AND HAZARDOUS WASTE LANDFILL SITE

In Dahej GIDC-2 plot no. D2/CH/135, facility of incineration has set up by Saurashtra Enviro Project Private Limited. Facility of hazards waste landfill site and

multi-effect evaporation has been set by Bharuch Enviro Infrastructure Ltd., located DAHEJ GIDC plot no. D/43.



# Common Environment Infrastructure Facility



SPRAY DRYER



MEE PLANT



LANDFILL COVERING DURING MONSOON



COVERED STORAGE SHED DURING MONSOON



DRUM DE-CONTAMINATION SYSTEM



SOLID WASTE LANDFILL SITE



EFFLUENT STORAGE TANK



QC LABORATORY

BEIL-Dahej has Started Operation of Treatment Storage and Disposal of Solid Waste (TSDF – Total Cap-14 Lakhs MT) from April-2015.

BEIL-Dahej has started Drum De-contamination facility (Cap-17000 Drums/Month) from November-2016 and Tanker De-contamination facility (250 tankers/Month) is ready to start, awaiting for consent.

BEIL-Dahej has started Common Multi Effect Evaporator facility (Capacity-200 KLD) from May-2017

followed by Spray Dryer unit (Cap-100 MT/Day).

BEIL-Dahej having full fledged NABL approved QC laboratory for testing of Solid Waste and Liquid Effluent.

BEIL has Fully Covered Storage Shed having capacity of 5000 MT solid waste during Monsoon Period, further proposed fully covered shed having capacity of 30000 MT, construction is going on and out of this 10000 MT capacity shed shall be completed on or before April-2018.



# FACILITIES OF GAS SUPPLY

Gas is supplied by GSPL, Petro net LNG and GAIL.



# DISASTER MANAGEMENT CENTRE

A disaster management center has been established at Dahej PCPIR plot number and another plot of 10000 meters nearby has been approved. A disaster management center with all modern facilities is likely to be developed here.



# BANKING FACILITIES, POST OFFICE & POLICE STATION

Facilities of banks like SBI, AXIS, PUNJAB NATIONAL BANK, HDFC and BOB and their ATM are available at Dahej PCPIR.



Police Station



Bank



Post Office



Marine Police Station



## A 50 BED HOSPITAL WITH ADVANCE FACILITIES IS CONSTRUCTED BY DAHEJ HEALTH AND WELFARE SOCIETY.

Along with the growth of industries at Dahej, the need for facilities pertaining to medical and health are likely to be increased too. Looking to this demand, Dahej Health & Welfare Society Hospital (DHWS) was constructed. This is a multi-specialty hospital with 50 beds. The hospital is constructed in a huge area at plot no. S/23, opp. to GACL Company gate, Dahej PCPIR area, which is most convenient to all.

It is tried to keep this hospital update with modern facilities. It was approved as “Base Hospital” by Chief District Health Officer, when PM of India, Shri Narendra Modi visited Dahej on 7th March 2017.

Facilities like the periodic health check-up, pre-employment examination, crude handler's examination, driver health checkup are given by this hospital to many companies of Dahej area.

This hospital started its functioning on 12th Aug. 2016. The patients are given 24 hrs. Emergency service. One medical officer performs the duty for 24 hours here.

The facilities of ICU, NICU, Operation Theater, Laboratory, Sonography, Digital X-ray and General rooms, Semi special and Special Rooms are given available in this hospital.

Some specialist doctors are appointed as visiting doctors in this hospital. They are the physician, orthopedic surgeon, surgeon ENT, surgeon radiologist, gynecologist and ophthalmologist, anesthesia, pediatricians, skin specialist, industrial physician, medical officer.

Pre-employment health checkup, periodical health checkup, basic standard and executive health checkup are done here.



## HEALTH FACILITIES AT DISTRICT LEVEL



If we look at the health facilities, the Taluka level hospitals are there at Vagara and Bharuch both. Also, there are health centers in Dahej, Pakhajan, Navetha, Kasva-samni villages one at each place. Each one has 6 bed

facility. There is 10 bed hospital in Birla –Copper township.

Moreover, there is a District Civil Hospital at Bharuch. Also, there are Global Hospital and other private hospitals, which have advanced facilities.

## GHOGHA DAHEJ RO-RO FERRY WILL OPEN NEW AVENUES OF DEVELOPMENT BYCONNECTING SAURASHTRA AND SOUTH GUJARAT THROUGH SEA ROUTE.

As a new feather in the hat in the development of Dahej is the beginning of Dahej-Ghogha Ro-Ro ferry, which will play a most important role to accelerate the development of Bharuch. Dahej Ghogha Ro-Ro ferry was inaugurated on 22nd Oct. by the PM of our country, Shri Narendra Modi. He reached Dahej port with 100 mentally challenged children by Ro-Ro ferry from Ghogha port. With this, a new chapter of water transportation has begun.

The distance between Bhavnagar to Dahej is 360 km by road, which reduced to 31 km due to Ghogha Dahej Ro-Ro ferry. This will save fuel. So the crude oil that we import from foreign countries will be required less, which will save our foreign exchange. As the oil is saved, it will give a positive effect on the environment as the gas emission to air will be reduced.



Production of Carbon Dioxide will reduce and so it will give positive effect to Global Warming.

Because of Dahej Ghogha Ro-Ro ferry, straight sea transportation from Bhavnagar to Dahej one can come to South Gujarat from Saurashtra quickly. The specialty of it is that it can carry the car, truck and tankers helping transportation of goods too. So the industrial development will be accelerated.

Besides, WIER CUM CAUSEway has been constructed at Bhadbhut, so one can easily reach Surat by the short distance, this will accelerate the

development.

The total expense of Ghogha-Dahej Ro-Ro ferry is Rs. 614 crores, funded from the SAGARMALA project of Gujarat Government and Central Government, in which Central Government contributed Rs. 117 crores to remove debris and garbage from the base of water.

Dahej-Ghogha Ro-Ro ferry gained good success. It is fixed that it will increase more facilities in future.



## JETTY FACILITY

Dahej Jetty facilities have been developed for sea transportation for Dahej, in which transaction of raw material, as well as final products, is done. Also, one jetty is developed

by Gujarat Chemical Port Terminal Company Limited (GCPTCAL) of Gujarat Maritime Board, where the transportation of chemical is done.





## WIER CUM CAUSEWAY WILL BE CONSTRUCTED ON RIVER NARMADA AT BHADBHUT AND IT IS MULTI BENEFICIAL

Bhadbhut, located at seashore, on Bharuch Dahej Road in Bharuch District is having much religious importance. It is important in many ways in Bharuch, one of them is the religious one.

The fair of Bhadbhut is celebrated once in every 18 years. It is called Mini Kumbhmela of South Gujarat. Holy Narmada river merges into the Arabian Sea at Bahdbhut. There is Bhreshwer Shivling at Bhadbhut. It is believed that one can achieve happiness and divinity if he/she worships with total faith.

Bharbhuteshwar Mahadev has been described in the 107th chapter of Vayu Purana Revakhand. There lived a Brahmin named Vishnu Sharma. Bholeshwar Batuk (Balswaroop) has studied Vedas at Vishnu Sharma's place. It was Bhadrapad Adhik month when he reached there to acquire the knowledge of Vedas. So the people, fair is celebrated in Bhadrapad Adhik month. This happens in every 18th year.

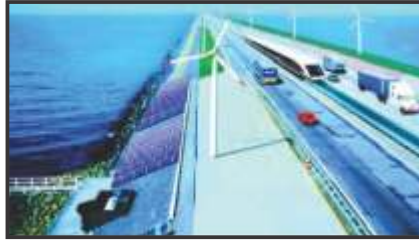
There is a planning of construction of WIER CUM CAUSE-WAY on river Narmada at Bhadbhut. It is expected that on getting permission from Environment Department, this project of Rs. 3000 crore will start at rapid speed.

Foundation Stone Laying Ceremony of this project was done by PM NARENDRA MODI. He has given assurance to start this project as soon as possible and finish it.

The width of the river at Bhadbhut Barage is 1600 meter and 1663 meter long barrage is to be constructed. It will have 90 gates. The width of the road barrage will be 33 meters. So that 6 lane road can be constructed. So one can go directly from Dahej to Hansot. The traffic from Surat to Dahej can directly come from Hansot. This way will be short and straight. This will help drivers, to industries. Moreover, the strip of Surat-Olpad will get developed fast.

It will be very easy to fulfill the demand for water for industries at Dahej due to this project. When Dahej PCPIR will run in full fletch, the requirement of water will be large and it will be fulfilled.

It will be proved beneficial for the farmers of surrounding villages for water irrigation. Sweet Water Lake will benefit the salty land of the surrounding villages. The land fertility will improve. Also, it will be helpful as drinking water and for domestic use. The requirement of water of the fast developing city of Bharuch will be fulfilled. The saltiness is increasing due to seawater at present. It will be successfully prevented. Also, it is helpful to improve quality of water below the earth too.



## SALT INDUSTRY HAS A GOOD GROWTH IN BHARUCH

The salt producing industries have been developed well in Vagara and Jambusar seashore villages. Because of it, the Chloro Alkali industry has been developed in Bharuch district. India ranks third in salt production after China and America and 77% of the production is done in



## EDUCATION

Some courses related to study and industrial training has been started in Dahej PCPIR. In it, the short term courses related to industries are

started by GOAL. So that the industries get trained manpower. Also, there is a gradual increase in the facilities for study/education.



## GIDC ESTATE DAHEJ-1,2,3

Dahej-1,2 and 3 estates are being developed by GIDC at Dahej, where Dahej-1 is 2716 hectors, Dahej-2 is 4400 hectors and Dahej-3 is 1580 hectors.

The infrastructure of road, water, electricity and drainage has been established in these estates. Many new companies are coming to these estates and their construction is on.

## SAYAKA, VILAYAT GIDC ESTATE

Vilayat estate in 1028 hectors and Sayaka-1 and 2 estates in 1870 hectors are being developed by GIDC.

Jubilant, Colourtex are functioning in Vilayat estate, whereas many other small-big companies are working.

The giant companies like Birla Grasim and





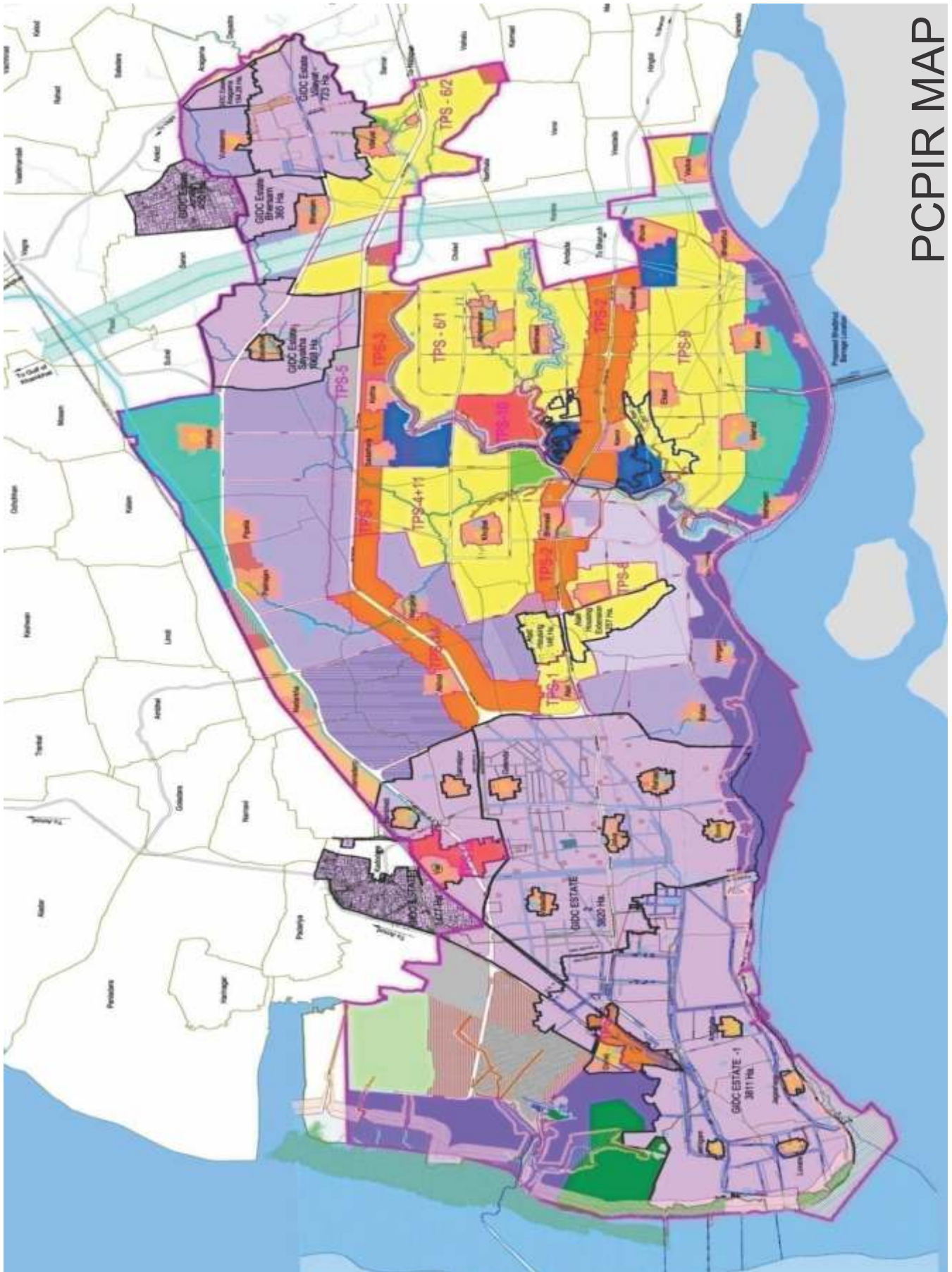
# PCPIR – Conceptual Master Plan



INDUSTRIAL	WARE HOUSING	PORTS
RESIDENTIAL	COMMERCIAL	SOCIAL
UTILITY	GREENS	EXISTING



PCPIR MAP





# DAHEJ SEZ IS BASE OF PCPIR

Dahej SEZ Ltd. The company is established by the joint venture of GIDC and ONGC Ltd. This SEZ is developed as multi-product SEZ. Dahej SEZ is divided into two parts. Dahej SEZ-1 is spread in 1200 hectares and Dahej SEZ-2 in 461 hectares. The SEZ has all required infrastructure.

Dahej SEZ got 25th rank in the two monthly

published magazine, Foreign Direct Investment published by Financial Times group of London in 2010, in which parameters like Potential, Inward Industries, Business Expansion, Cost Effectiveness and facilities were included.

In 2012-13 4 FDI magazine surveyed 600 free-zones in 120 countries of world. Dahej SEZ got 26th rank among first fifty.



## FAIR AT BHADBHUT AFTER 18 YEARS

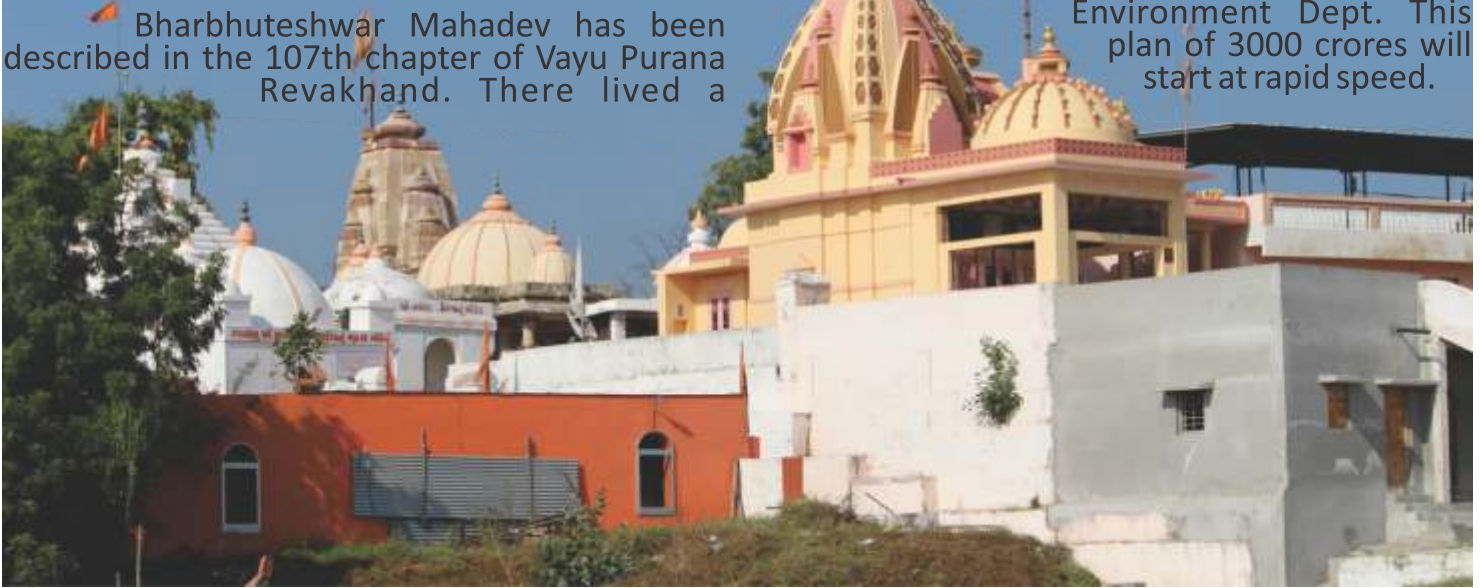
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## SAMADHI (SHRINE) OF LAKHABAVA DADA

The people have faith in the Shrine of Lakhabava Dada, located at Lakhigam near Dahej. Here the people come to complete their Badha of cutting the hair (Babari)

The name Lakhigam has come from the name of Lakhabava Dada. He had served his Guru Gangagiri with total devotion. Gangagiri

became happy and blessed him that you will be worshipped by me. He got Samadhi here. There is temple of Lakhabava. People come here with faith and devotion.



The nail of a cow is found here. According to Narmada Puran, mother of Parshuram had a Kamdhenu (cow). That Kamdhenu was buried here. But the mark of nail is found here. So she has got the place here.

## GOVERNMENT THINKS TO DEVELOP ALIABET AS ENTERTAINMENT PLACE

In the center of the mouth of river Narmada, there is an area like island.

The government has declared Aliabet, near Dahej PCPIR as SIR and decided to develop it as an entertainment center. Though there is no development at



present, it will be developed with the development of Dahej PCPIR. State Government is in action to develop film industries and entertainment industries. Also, Government has plant ECO culture and industries related to shipbuilding.





## DAHEJ ECO-FRIENDLY SOCIETY

Dahej Eco-Friendly Society is a non-statutory body to meet any industrial emergency (both on-site & off-site) in Vagra Taluka. It was started in 1999 under the guidance of District Collectorate & Factory Inspectorate, Bharuch, which is working with the objective to serve the industries, society and community in Bharuch District on the basis of private-public partnership. DEFS has been set-up with the support from all the member industries of Dahej and that of Gujarat State Disaster Management Authority (GSDMA). The main aim of Dahej Eco-Friendly Society is to coordinate various activities at the time of emergency situation. In addition, we are providing Firefighting Facilities at the time of Emergencies. The society is providing training in various fields like safe work practices, Hazard identification, etc... to the Industries and villagers.

At present D.E.F.S. is functioning from Plot no. 715/01, Near PCPIR Goal ITI, Opp. Expanded Polymer, P.O. Dahej -392 130, Taluka Vagra, Dist. Bharuch, Phone (02641) 256670, Mobile 99249 37101, 98244 75576. D.E.F.S. Conducts public awareness programme, training on handling hazardous chemicals at various level of employees, mock-drill, first aid training through reputed personnel etc. At present wireless system is installed between member industries to D.E.F.S. and D.E.F.S. to Dist. Collector office, Bharuch.

### > Activity DEFS:

1. Firefighting facility any Emergency (Both on-site & off-site)
2. Monthly Safety Training Program
3. World Environment Day Celebration
4. Tree Plantation
5. Mock drill
6. School Safety Training Program
7. Awareness Program





# DAHEJ ECO FRIENDLY SOCIETY



World Environment Day Celebration



Safety Equipment Demonstration by National Disaster



Monthly Safety Programme



Off Site Mockdrill GSPL & DEFS



National Safety Day Celebration Rally



National Disaster Management Authority Member- Dr.D.N.Sharma Visit Dahej

Dahej Rally



# ONGC Petro Addition Limited Plant Innogration by Prime Minister Narendra Modi



ONGC Petro additions Limited (OPaL), a multi-billion joint venture company was incorporated in 2006, as a Public Limited Company under the companies Act, 1956, promoted by Oil and Natural Gas Corporation Limited (ONGC) and co-promoted by GAIL (India) Limited and Gujarat State Petroleum Corporation (GSPC).

OPaL has set up a grass root mega petrochemical project in the port city of Dahej, Gujarat; which is a part of Petroleum, Chemicals and Petrochemical Investment Region (PCPIR). The mega petrochemical complex was inaugurated by Hon'ble Prime Minister of India, Shri Narendra Modi on 7th March, 2017. The plant is one of the largest integrated petrochemical complexes in South Asia. The petrochemical complex mothers a Dual Feed Cracker with a capacity to produce 1100 KTPA Ethylene, 400 KTPA Propylene along with Associated Units consisting of Pyrolysis Gasoline Hydrogenation Unit, Butadiene and Benzene Extraction Unit. The Polymer plants of OPaL has 2X360 KTPA of LLDPE/HDPE Swing unit, 1X340 KTPA of Dedicated HDPE



and 1x340 KTPA of PP. OPaL is poised to become a key player in the growth of the petrochemical industry and synergizes with the strengths of its promoters to gain strategic competitive advantages.

The demand for petrochemicals in India is intertwined with its economic growth and consequent rise in consumerism. Western region, where OPaL is located, also happens to be the largest and fastest growing domestic petrochemical consumption centre in India. With multimodal access, we are uniquely positioned on the global map to reach out to serve global needs.

OPaL aims to provide world-class products and services across the globe by making effective use of technology, while being sensitive towards the environment at all times. Using state-of-the-art technologies from the finest and most renowned technology providers, OPaL facilities will be among the best in class in the world. Driven by innovation, we intend to build world class petrochemical organization unlocking potential of our people and offer differentiated product and services.