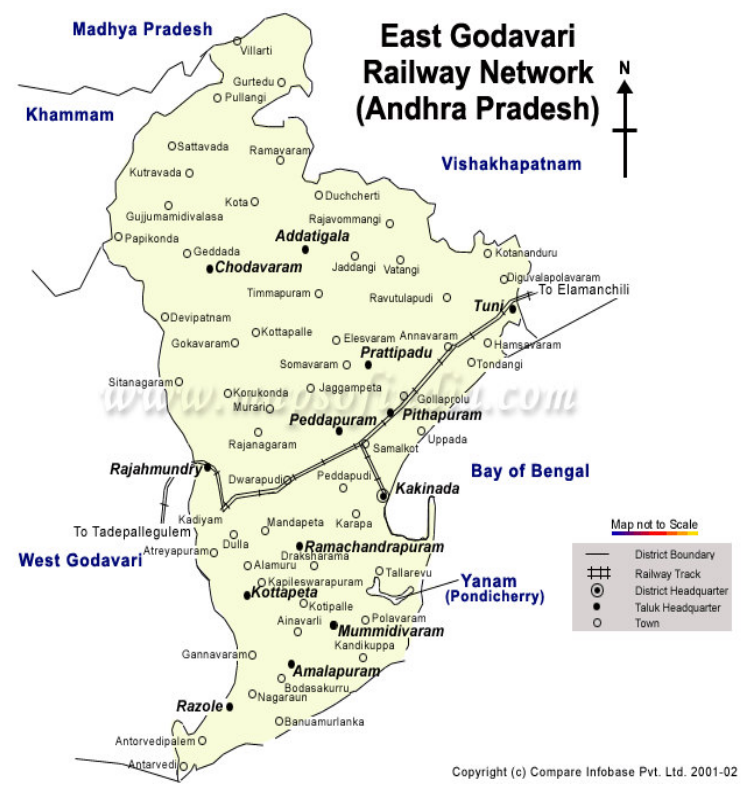


# **INDUSTRIAL PROFILE**

**EAST GODAVARI DISTRICT**

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## **Background:**

East Godavari is situated along northern coast of Andhra Pradesh between the latitudes 16 30' N to 18 20' N. and it is bounded by Visakhapatnam District on the North & West Godavari District on the South, Bay of Bengal on the East and Khammam district on the West. The Geographical area of the district is 10,807 Sq.Mtrs.

Climate of the District is mainly warm. About 90% of Rain Fall is brought by South West Monsoons.

The district can be divided into four natural agro climatic zones – Central Delta, Eastern Delta (popularly known as Konaseema), the Uplands and the Agency tracts. The Delta lands are formed along the lower drainage basins of the major rivers flowing through the district viz., the Godavari, the Yeluru and the Pampa, where the elevation is usually a few feet above the mean sea level. The elevation reaches upto 1500 feet above the mean sea level in the Agency tract, which is densely covered by the hills of Eastern Ghats interspersed with numerous valleys and drains. Tucked between the deltaic lands and hilly tract lie the uplands, with undulating terrain.

The major types of the soils in the district are coastal alluvium, clay loams, black cotton and red soils. The alluvial types of soils are found predominantly in Godavari delta area, the tail end portions of which have sandy clay soils. Red loam is of common occurrence in upland areas and agency areas.

The black cotton soils are also found in these parts of the district.

## **FACT SHEET OF THE EAST GODAVARI DISTRICT**

### **Demographic Profile**

Area of the District	10,807 Sq. Kms.
Population (2001 Census)	48,72,000
Major rivers	Godavari
Male population	24,38,439
Female population	24,33,561
Density of population	420 persons per sq. km.
Sex ratio	998 (Females per 1000 males)
No. of Mandals	57
Actual Rainfall	12195.0 mm
Gross irrigated area	10,71,300 Acres

### **Social Infrastructure**

Hospitals	21
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Dispensaries	40
Public Health Centres	72
Doctors	620
Hospital Beds	2337

### Education

High Schools	3891
Degree Colleges	48
Engineering Colleges	6
Medical Colleges	1
Polytechnical Colleges	3

## **Resources:**

**AGRO RESOURCES:** The main economic activity of East Godavari is agriculture and 64.8% of population is depended on agriculture. East Godavari contributes about 10% of the total food grain production in the state. The district stands top in the State in production of paddy, banana and coconut. *Paddy, Castor, Pulses, Jowar, Maize, Ground Nut* are the major crops grown in the District. Crop – wise details with area and production are indicated.

Sl.No.	CROP	KHARIF	RABI	QTY(LAKH)
1	PADDY	255118	157597	412715
2	RAGI	501	69	570
3	BAJRA	4320	32	4352
4	JOWAR	1206	68	1274
5	MAIZE	1738	3770	5508
6	PULSES	2789	130714	133503
7	GROUNDNUT	824	1504	2328
8	COTTON	7185	0	7185
9	SESAMUM	2880	1803	4683
10	CASHEW NUT	29670	0	29670

## **HORTICULTURE:**

Coconut occupies the first place among the horticulture crops. It is mainly concentrated in the central Delta ( i.e. Konaseema area). Mango & Cashew nuts are cultivated in uplands. Banana is grown in central delta.

**FOREST:** The district has Forest cover in 3.23 lack sectors i.e., 30% of total area. The Major produce of Forest are Teak, Firewood, Bamboo, beedi leaves etc. ITDA is encouraging cashew nut and mango plantation in tribal areas. A number of medical plants are also available in Forests.

**MINERALS:** The Major important minerals are graphite, china clay, fire clay, oil and natural gas. Precious stones are found in Addateegala Mandal.

**Clays:** Workable deposits of Fire Clay, Ball Clay, China Clay and ordinary Clay occur in East Godavari district. The fire clay occurring in East Godavari district are being used in sanitary ware and stone ware industries. Clays find usage in many industries like ceramic, Refractory, Paper, Textiles, Electrical, Cement, Petroleum, Foundries etc.

**Graphite:** Low grade Graphite with less than 40% fixed carbon is found in East Godavari district. There is a scope to develop new mines and establishment of Graphite based industries in the District.

**Natural Gas:** Presently ONGC is producing gas at the rate of 3.05 MMM 3/day to 4.0 MMM 3/day. ONGC, GSPC, Reliance Industries are Companies exploring oil and natural gas in this region. GAIL is marketing and distributing the natural gas through Gas Collection Stations. Reliance Industries and GSPC are laying Pipe lines for carrying gas. Reliance Energy, Samalkota is getting Gas from Reliance industries. ONGC has established mini Oil refinery at Tataipaka.

#### **LIVE STOCK RESERVES:**

Cattle and poultry constitute the important live stock resources of the district. The following are the details of Live Stock population available in the District.

1. CATTLE	332042
2. BUFFALLOWS	466141
3. SHEEP	52919
4. GOATS	127652
5. POULTRY	3804584

#### **POULTRY:**

There are captive poultry feed plants available and there is a scope for establishing some more feed mixing plants in the district and required veterinary facilities are also available.

**MARINE:**

East Godavari district has a coast line of 161 kms with 90 Fishing villages. The total marine fish during the year was 22,033 MT. The Fish is also exporting to foreign countries.

**OTHER RESOURCES**

Sericulture is first introduced in uplands and then extended to Delta area, at present 320 Hectares of land is in mulberry cultivation.

**Infrastructure:**

**COMMUNICATIONS:**

The District has well connected Rail, Road ways in the District. An air port and one Sea Port were developed in the District. The NH 5 which connects Chennai & Kolkata is passing through the district for 126 KMs and other types of roads with a length of 6492.28 are connecting all the corners of the district. The NH 214 connecting Kathipudi to Pamarru is passing through the District for 134 kms. Some information on Communication network details are as indicated.

National Highway	: 258 Km
State Highway	: 1961 Km
Z.P. Roads	: 2584 Km
Length of Railway line	: 125 Km

**POWER:**

There is surplus power available in the district for industrial purposes. Further Express Feeders have been setup to cater the industrial needs. There are 112 Substations with 10,813 Nos. of Distribution Transformers with LT Lines of 33,365.63 Kms and others 13,903.1 Kms. The details are indicated.

**Substations:**

- 1. 220 KV/132 KV 2 Nos.
- 2. 132 KV/33 KV 6 Nos.
- 3. 33 KV/11 KV 64 Nos.

**Length of Lines:**

- 1. LT Lines .....Kms
- 2. 11 KV Lines .....Kms

3. 33 KV Lines .....Kms
4. 132 KV Lines .....Kms
5. 220 KV Lines .....Kms

### EXISTING INDUSTRIAL ESTATES / INDUSTRIAL DEVELOPMENT AREAS:

There is One Industrial Estate in the district located at Mahabubnagar and 4 Industrial Development Areas at Kothur,. Jadcherla, Palem, Gadwal, Almost all plots, sheds and shops developed are allotted to the entrepreneurs except Gadwal.

Sl. No.	Name of Indl. Park	Total Area in Acres
1	Self Employment Industrial Estate, Kakinada	6.8
2	Industrial Development Area, Kakinada	35.35
3	Industrial Development Area, Kakinada (Expansion)	53.83
4	Industrial Estate, Samalkot	25.75
5	Assisted Pvt Industrial Estate, Dowleiswaram	34.31
6	Industrial Development Area, , Dowleiswaram	168.31
7	Industrial Development Area, Kadium	76.69
8	Mini Industrial Estate, Gopala Puram	2.64
9	Mini Industrial Estate(ST), R.Chodavaram	15.68
10	Industrial Development Area, Vakalapudi	641.48
11	Industrial Development Area, Peddapuram	122
12	Industrial Development Area, Peddapuram	1645

### **Industrial Scenario:**

107 Large & Medium Scale Industries with an investment of Rs.8800 Crores and providing employment to 19181. Prominent Industries are Rice milling, Oil refining, Solvent Extraction, Sea Food Processing, Chemicals and Fertilizers, Paper Industries, Automobile Components, Sugar Mills, Beverages, Bio-mass Power Plants and Gas based power plants etc.

56 Large & Medium Scale Industries are obtained IEM's and 26 Industries are under Implementation where

#### NATURAL GAS STATUS IN EAST GODAVARI:

Presently ONGC is producing gas at the rate of 3.05 MMM 3/day to 4.0 MMM 3/day. At present GAIL is supplying gas to M/s. NFCL, GFCL, APSEB, GVK Power Plant, Regency Clay products, Spectrum Power generation Ltd., Sri Vatsa Power project, Rajole, Venkata Raya Power Project, Mori , SteelExchange India Ltd., Ravulapalem, M/s.Padma Hi-tech Gases, Ravulapalem, M/s.AGS Aerospace Industries,East Palem, M/s.Jai Bhavani Steel Re-rolling Mills, Gollapalem, M/s. G.M.K. Power ,Gollapalem, and M/s.Priya Darshini Spinning Mills, Y.Kothapalli,

ONGC, GSPC, Reliance Industries are Companies exploring oil and natural gas in this region. GAIL is marketing and distributing the natural gas through Gas Collection Stations. Reliance Industries and GSPC are laying Pipe lines for carrying gas. Reliance Energy, Samalkota is getting Gas from Reliance industries. ONGC has established mini Oil refinery at Tataipaka.

GAIL has given consent for allocation of Natural Gas through its grid to M/s Sri Vatsa Power, Konaseema Power, AP Power, GVK, GMR and RAK Ceramics-Peddapuram.

The Marketing and distribution functions of natural gas in Krishna. Godavari area is being done by GAIL. ONGC is associated with GAIL in planning the additional facilities and technical inputs needed for the future enhanced gas supplies. The actual timing of the enhancement of natural gas quantities are linked with the project completions of the future consumers and expansion plans of present consumers.

Total allocation of natural gas from K.G. area is 8.5 MMM 3/day. ONGC has already projected a production potential of 6.5 MMM 3/day of gas availability of which entire quantity has been allocated to the industrial consumers of this area. The allocation of 8.5 MMM 3/day is envisaged to be met by the gas flow from Ravva, JVC.

ONGC has entrusted a feasibility study to M/s.PDIL, Sindri, a public sector consultancy firm to examine the techno – commercial aspects of piped natural gas

supplies for house hold and minor commercial uses like hotels, hospitals etc in the towns of East Godavari.

Any Industrial Entrepreneur needs gas for his project may approach to Gas Authority of India Ltd. for the allotment based on the availability from dedicated Grid as well as uneconomical sourced gas wells dug by ONGC.

Many enquiries are coming from all quarters for establishing of Industries using Natural Gas. Many existing Industries are pursuing to convert their Energy resource into Gas. The land costs are increasing day by day and there by throwing in establishing new Industrial Estates as Total land in Industrial Estates are sold away by APIIC.

16 Industries are actively using Natural Gas investing Rs.5500 crores are working well in this district for Power Generation, Steel Re-rolling, Producing Fertilizers, Oil Refining and Naptha, Kerosine and Diesel etc. The Power projects like Gowthami, GVK expansion, GMR, Konaseema Oak Well, R.A.K. Ceramics etc are almost invested Rs.4000 Crores and are awaiting for supply of Natural Gas from GAIL. All Refractory, Paper, Rice Mills, Steel Industries are anxiously waiting for making use of Natural gas as fuel for their Industry.

#### FOOD AND AGRO PROCESSING INDUSTRIES:

There are 31 Sago Industries in and around Samalkota. There are 16 Cashew Industries in and around Tuni and Rajahmandry. 50 rice mills are established Sortex machines and Steam Driers where each mill turn over is ranging from 10 Crores to 40 Crores and some units are making a turn over of 100 to 150 Crores. Some Paper Mills are processing Straw and Baggasi. About 200 units are existing in Coir sector where Coir fibre extraction and Curled Coir is taking place. 750 Mango Jelly units are working and almost producing 1000 tonnes of Mango Jelly during the season in and around Kakinada. About 5 Shrimp Processing units are working at Kakinada and Ravulapalem. 3 Buff meat processing units are working in this district. Many Poultries and Poultry Feed, Fish Feed and Aqua Feed and Shrimp Hatcheries are established in this district. The Salt Industry is producing almost 50,000 tones of Salt in 6000 acres farm in and around Kakinada.

East Godavari has enormous potential for processing Cashew Fenny, Distilleries out of Sago / Waste Fruits, Seed Processing, Packaging Industry, Dairy,

Pickles, Cereals and Pulses, processing and Iodization of Salt, Bio- Diesel Plantation and processing etc. An organized Marketing infrastructure is required.

APIIC is proposing 1500 acres of IDA at Peddapuram and proposing to develop one Food Processing Park in Peddapuram in 200 acres for Mango Pulp and Mango Jelly Industries, Sago Industries.

#### PORT BASED INDUSTRIES:

The Port of Kakinada situated at Lat 16 59' N Long 82 19' E in the principal sea port amongst the minor ports in India. It is an all weather sheltered Anchorage port classified as an intermediate port. The principal exports are Extractions of Rice bran, Ground Nut, Sal seed, Cotton seed, Soya bean and rape seed, tobacco, Mango kernels, Groundnut kernel, Palm fibre, Fruit Jams and Juices, Cement etc., while imports are DAP, MOP, Urea, Rock Phosphate, Common Salt, Rice Wheat, LPG etc.

Further, the Government of Andhra Pradesh have under taken the development of Kakinada Port as Deep Water Port with the loan assistance of US\$ 76.115 Millions from A.D.B. Kakinada Deep Water Port provides for a continuous wharf of 610 Mt. In length to berth three ships simultaneously for handling liquid cargo and general cargo. The draft providing initial is of 90.5 MTs. to handle 25,000 DWT vessels. The berths are designed to handle up to 60,000 DWT vessels in future suitably increasing the dredge depth to (-) 13.20 Mt.

The construction of three shore connected berths, approach channel breakwater, approach bund, backup area and warehouse on berthing area are completed and navigational aids are provided to handle 3.00 Million Tones of cargo per annum initially. The operation of Deep Water Port is commenced since 10/96. The principal imports are phosphoric acid, Palmolive oil, Naphtha, Machinery, Fertilisers etc., while exports are Molasses, Bentonite, Steel etc., Efforts are being made to start the container operations.

M/s.Kakinada Sea Ports are now proposing to increase the capacity from 90 tonnes to 180 tonnes and also proposing to go for one more berth.

M/s.NFCL, M/s.GFCL, M/s.Ruchi Infrastructure Ltd., M/s.Kedia Over Seas Ltd, M/s.Arani Agro Oils Ltd., M/s.Aclmar Oils and Fats, M/s.Nikhil Refineries Ltd., M/s.Sarda Agro Oils Pvt.Ltd., M/s.NCS Estates Ltd., M/s.Shalimara Agro Oils, M/s.Agarwal Oil Industries are established using Palm crude as raw material for refining around Port.

NFCL and GFCL are importing Phosphoric acid. The raw materials are supplied to these industries through pipes. Many Industries are taking up expansions/Diversifications year after year. About Rs.3500 Crores investment pumped in these industries for infrastructure and daily 5000 tonnes of Palm Oil Crude is refined in this Industries and a turnover of about 6000 Crores takes place.

Enquires are on for establishing Oil Refinery Units from NRI's and local investors. The cost of land is very high side and there is demand for infrastructure at cheaper price.

#### STATUS OF INDUSTRIAL CLUSTERS:

##### (1) ROOFING TILES INDUSTRY: **(Jaggampeta, Dwarapudi)**

13 Industries are producing Roofing Tiles in and around Jaggampeta

##### (2) CERAMIC JAR INDUSTRY: **(Rajahmundry)**

PET Jars and Plastics containers are manufactured using China Clay abundantly available around Rajahmandry.

##### (3) SAGO INDUSTRY: **(Samalkot, Peddapuram)**

31 Industries are functioning in and around Samalkota and Peddapuram. Scope is there for Product diversification i.e. Sago Distillation.

##### (4) MANGO JELLY INDUSTRY: **(Sarpavaram, Atreyapuram, Hasanbada, Tuni.)**

750 units are working and 1000 tonnes of Mango Jelly is produced in Season. Needs Modernisation to reduce the time taken in processing to be done. More Value added products are to be manufactured. The quality should be improved in the hygienic conditions. Cold Storage facility also will be needed.

##### (5) GRAPHITE CRUCIBLE INDUSTRY: **(Rajahmundry, Samalkot)**

52 Graphite Crucible Industries are working in Rajahmandry town for past 3 decades. The units have good market in Punjab, Haryana, U.P. and other Northern States where Casting, Forging and Metallurgical units exists. These units need source of land near by Rajahmandry to relocate with modernization.

(6) COIR INDUSTRY: (Konaseema Area)

200 Coir Industries are working in Konaseema and Kakinada division of East Godavari and producing Coir Fibre and Curled Coir. Disposal Coir Pith is a major problem in this industry. The industry needs Land which is very costly affair for establishing in Delta areas.

East Godavari District is having a good potential for Food and Agro Processing Industries such as Cashew, Palm Oil Refinery, Bio-Diesel, Meat Processing units, Sago, Sago Distilleries, Essential Oils, Shrimp Processing, Solvent extractions, Iodized Salt, Coir Units, Rice Mills, Mineral Industries like Glazed Tiles, Flooring Tiles, Roof Tiles, Refractory bricks, Runners, Graphite Crucibles and Distilleries using Waste Fruits / Sago etc

**Proposed Infrastructure:**

1. To identify Ac. 2000 of land at Tuni for developing Industrial Estate for all products in view of Water available through Polavaram Project and Gas from GAIL.
2. To identify Ac. 400 land at Velugubanda Village in addition to Ac. 112 Proposed land
3. To identify Food Processing Park in Ac. 200 at Peddapuram
4. To identify Ac. 100 of land for developing Industrial Estate separately for Coir Industries at Razole.
5. To identify investors who promote private market yards for marketing Flowers / Bananas at Ravulapalem under Public Private participation.
6. Port based Multi Product SEZ kakinada in 10,000 Acs.

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