



# **STUDY ON “INVESTMENT, GROWTH & DEVELOPMENT IN PROGRESSIVE ANDHRA PRADESH”:**

**A Land of Unlimited Opportunities**

**2018-19 to 2022-2023**

**OCTOBER 2023**



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**STUDY ON  
“INVESTMENT, GROWTH &  
DEVELOPMENT IN PROGRESSIVE  
ANDHRA PRADESH”:  
A Land of Unlimited Opportunities**

**2018-19 to 2022-2023**

**OCTOBER 2023**

**MSME Export Promotion Council**

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## ACKNOWLEDGEMENT

The MSME Export Promotion Council has been conducting Studies state-wise or industry specific from time to time. The objective of such studies has been to create awareness regarding the existing and emerging opportunities, attract investment, encourage start-ups, facilitate exports, promote village industries, strengthen the infrastructure and generate new employment opportunities.

We are pleased to share the information that the studies have been extremely successful in meeting their objective. We are delighted to inform you that the MSME EPC and the Confederation of Organic Food Producers and Marketing Agencies have brought out a **study on “Investment, Growth & Development in Andhra Pradesh 2018-19 to 2022-23”**.

Though full attempts have been made by the Research Team at the MSME EPC secretariat, lot more information need to be provided for and, therefore, we assure you our efforts will continue in this direction.

We are happy to present to you a copy of the Study with a request to give us your constructive suggestions.

I wish the study a great success in meeting its objectives.

A handwritten signature in black ink, appearing to read 'D S Rawat', with a long horizontal stroke extending to the right.

Dr D S Rawat  
Chairman, MSME EPC





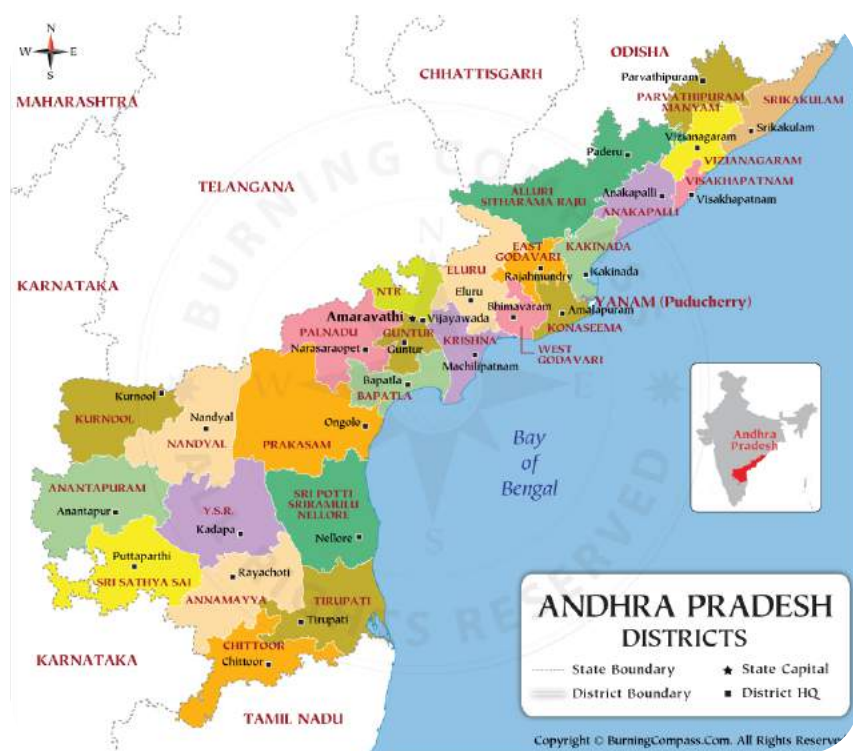
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## ANDHRA PRADESH



Andhra Pradesh is located in the southern peninsula of India. The state shares its borders with Chhattisgarh on the north, Odisha on the northeast, Telangana and Karnataka on the west, Tamil Nadu on the south, and Bay of Bengal on east. It has the second longest coastline in India of about 974 km. Amaravati serves as the capital of the state with the largest city being Visakhapatnam. The Gross State Domestic Product (GSDP) of Andhra Pradesh for 2023-24 (at current prices) is projected to be Rs.14,49,501 crore, amounting to growth

of 10% over 2022-23. Expenditure (excluding debt repayment) in 2023-24 is estimated to be Rs.2,60,868 crore, an increase of 17% over the revised estimates of 2022-23.

### GROSS STATE VALUE ADDED (GSVA) & GROSS STATE DOMESTIC PRODUCT (GSDP) AT CURRENT PRICES: BASE YEAR 2011-12

As per the latest data available as on 5th June 2023, in 2018-19, the GSVA at basic prices were Rs.7981756.0 million, taxes on products Rs.896083.2 million, GSDP Rs.8737211.1 million and per capita GSDP Rs.170180.0.

In 2019-20, the GSVA were Rs.8628478.1 million, taxes on products Rs.852782.9 million, GSDP Rs.9258391.2 million and per capita GSDP Rs.179280.3.

While in 2020-21, the GSVA were Rs.8855753.6 million, taxes on products were Rs.988526.6 million, GSDP Rs.9567877.0 million and per capita GSDP Rs.184188.9 and in 2021-22, the GSVA were Rs.10401865.0 million, taxes on products were Rs.1120000.0 million, GSDP Rs.11338365.0 million and per capita GSDP Rs.216998.1.

During the year 2022-23, the GSVA were Rs.12,149,611.5 million, taxes on products Rs.1240990.0 million, GSDP Rs.13,177,281.5 million and per capita GSDP Rs.248257.9.

## AGRICULTURE

Despite the disruptions caused by the pandemic, AP emerged as one of the front ranking states in the country's agribusiness industry with Rs.44,539 crore exports showing a notable growth rate of 5.95% in the state's agricultural and food processing exports for the year 2021-22.



The state has established itself as a major player in India's agribusiness industry, with a significant contribution in sectors such as aquaculture, horticulture, dairy, and poultry. In addition to this, AP has achieved remarkable milestones in the agriculture and food processing sector. The state ranked first in the production of several crops including palm oil, papaya, lime, coconut, cocoa, tomato, and chillies, as well as in marine exports in 2021-22.

The state is actively developing integrated production centres in all districts of the state in line with the AP Food Processing Policy which provide farmers with common facilities. To improve farmers' income, the government has introduced new crops such as dragon fruit, Taiwan guava, Mauritius variety of pineapple, strawberry, cinnamon, nutmeg, Japanese mint, etc. These initiatives demonstrate the government's commitment to promoting the growth of the agricultural sector and supporting the welfare of farmers in the state.

The state has also secured the top position in egg, fish and shrimp production, while taking the second position in paddy, maize, mango, sweet orange, cashew and turmeric. Under the YSR Rythu Bharosa scheme, financial assistance is being provided to land owning farmer families @ of Rs.13,500/- per year including Rs.6000/- from the GOI under the PM KISAN in three installments. Financial assistance is also being extended to SC, ST, BC, Minority category landless tenant farmers & ROFR cultivators @ Rs.13,500/- per year per family by the state government.

## TOTAL PRODUCTION: ALL SEASONS: FOOD GRAINS (000 TONNES)

While in 2018-19, total production (000 tonnes) of food grains was 10838.8, cereals 10099.2 and pulses 739.6, in 2019-20 the total production (000 tonnes) was 12356.8, cereals 11190.1 and pulses 1166.7.

During 2020-21, the total food grains production (000 tonnes) was 11299.0, cereals 10204.4 and pulses 1094.6 and in 2021-22, food grains 11076.5, cereals 10022.0 and pulses 1094.5.



## TOTAL PRODUCTION ALL SEASONS NON-FOOD CROPS: OILSEEDS & COTTON



During 2018-19, the total production (000 tonnes) of oilseeds were 504.4, in 2019-20 it was 901.2, 2020-21 the total production was 804.6 tonnes and in 2021-22, 548.9 tonnes.



CSIR-CLRI is one of the research institutes of the Council of Scientific and Industrial Research (CSIR), New Delhi. Since 1948, CSIR-CLRI is carrying out basic and applied research in Chemical Sciences, Leather Sciences, Biological Sciences & Environmental Sciences and publishes more than 170 research articles along with 10 to 15 patents annually. CSIR-CLRI look forward to tie-up with the industries, academicians for R&D collaborations, sponsored projects & invite research scholars/students for their higher educations in the basic and applied research in the following Chemical Science areas:

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- ❖ **Solid Phase Synthesis & Antibacterial Coating Materials**
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- ❖ **Protein crosslinking**
- ❖ **3D Printing in Polymerchemistry**
- ❖ **Single-atom Catalysts**
- ❖ **Tanning & Re-tanning Agents**
- ❖ **Physical Chemistry using NMR**
- ❖ **Graft-copolymers**
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- ❖ **Biodegradable Polymers**
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**Director, CSIR-Central Leather Research Institute (CSIR-CLRI)**  
(Council of Scientific & Industrial Research)

Adyar, Chennai - 600 020 India

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## PLANTATION CROPS (COFFEE) 000 TONNES

The total production (000 tonnes) of coffee in 2018-19 was 10.9, 2019-20 it was 10.4 and in 2020-21 the total production was 10.7 tonnes.

Andhra Pradesh has huge potential to develop agriculture and allied sectors. Though it has a total cultivated area of 6.35 million ha, crop productivity is low and stagnant while the cost of cultivation has been increasing in recent years. The state

is not a homogenous entity in the endowments with vast tracts of dry lands and flood affected areas, despite its volatility centering on unpredictable weather conditions, huge farm expenditure and non-profitability continues to be the mainstay for millions of population in the state. Making the agriculture sector more resilient and helping the farming community is the most important priority for the state.



## EXPORTS OF PRINCIPAL COMMODITIES IN INDIAN RUPEES (DGCIS) RS.MILLION

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As per the information available on 19 August 2023, exports of all principal commodities during 2018-19 was Rs.984099.0 million; petroleum & crude products Rs.20758.7 million, total non-petroleum products Rs.963340.7 million, agricultural & allied products Rs.327838.9 million, ores & minerals Rs.17328.4 million, manufactured goods Rs.608959.0 million and other commodities Rs.9214.6 million.

In 2019-20, exports of all commodities was Rs.1048747.8 million; petroleum & crude products Rs.48208.1 million, total non-petroleum products Rs.1000539.7 million, agricultural & allied products Rs.339548.9 million, ores & minerals Rs.18468.4 million, manufactured goods Rs.634470.9 million and other commodities Rs.8051.5 million.

During the FY 20-21, the total exports of all commodities was Rs.1247995.5 million; petroleum & crude products Rs.15920.5 million, total non-petroleum products Rs.1232074.9 million, agricultural & allied products Rs.359432.4 million, ores & minerals Rs.12660.0 million, manufactured goods Rs.849349.2 million and other commodities Rs.10633.3 million.

In 2021-22, total exports of all commodities Rs.1438431.8 million; petroleum & crude products Rs.24720.5 million, total exports of non-petroleum products Rs.1413711.2 million, agricultural & allied products Rs.479830.4 million, ores & minerals Rs.15276.3 million, manufactured goods Rs.906445 million and other commodities Rs.12159.2 million.

In 2022-23, the total exports of all commodities were Rs.1593680.2 million; petroleum & crude products Rs.44298.0 million, total exports of non-petroleum products Rs.1549382.2 million, agricultural & allied products Rs.530809.6 million, ores & minerals Rs.33933.1 million, manufactured goods Rs.970768.8 million, and other commodities Rs.13870.8 million.

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## NUMBER OF BANKING OFFICES BY BANK GROUP



In 2018-19, there were 7087 total banking offices; 4731 public sector banks, one foreign bank, 1263 regional rural banks 1085 private sector banks and 7 small finance banks.

During 2019-20, there were 7252 total banks; 4736 public sector, one foreign, 1291 regional rural, 1085 private sector and 39 small finance banks. In 2020-21, there were 7431 total banking offices in the state; 4696 public sector, 70 foreign,

1279 regional, 1298 private sector and 70 small finance banks.

As per the information available on 3rd October 2022, there were 7446 total banking offices; 4585 public sector, 70 foreign, 1309 regional rural, 1391 private sector and 91 small finance banks.

## CREDIT DISBURSED BY ALL SCHEDULED COMMERCIAL BANKS BY ECONOMIC ACTIVITY RS. MILLION

In 2018-19, the total bank credit was Rs.3735724.8 million; agriculture Rs.1239850.5 million, industry Rs.676979.9 million, transport operators Rs.83850.4 million, professional & other services Rs.139120.8 million, personal loans Rs.1058587.9 million, trade Rs.311839.4 million, finance Rs.76475.0 million and miscellaneous Rs.149021.0 million.



During 2019-20, the total bank credit was Rs.4188300.6 million; agriculture Rs.1307320.4 million, industry Rs.767786.9 million, transport operators Rs.81676.5 million, professional & other services Rs.209142.3 million, personal loans Rs.1242957.8 million, trade Rs.344199.8 million, finance Rs.125168.1 million and miscellaneous Rs.110048.9 million.





The CSIR- Central Road Research Institute (CRRI), New Delhi, a constituent laboratory of the council of scientific and Industrial Research(CSIR), provides high quality and globally acceptable research and consultancy services in the area of highway and road transportation technology. Established in 1952, the major activities of the Institute relate to pavement design and performance, road condition monitoring, pavement deterioration modeling, landslide management and hazard mitigation, and improved transportation planning for emerging urban needs.

### R&D Capabilities & Area of Consultancy

- Analysis and Design of Bridges
- Distress Diagnostics and Rehabilitation Measures for Bridges
- Design of Ground Improvement Measures
- Landslide Investigation, Hazard Zonation and Mitigation Technologies
- Soil Nailing and Soil Reinforcement
- Use of Marginal and Waste Materials for Construction
- Design of Flexible and Rigid Pavement
- Evaluation and Standardization of Road Construction Materials
- Development of New and High Performance Materials
- Structure and Functional Evaluation of Pavement
- Quality Control and Quality Assurance Aspects
- Evolving Pavement Management Strategies
- GIS and Remote Sensing Applications in Road Sector
- Rural Road Network Planning
- Road Development Policy Studies
- Application of HDM-4 for Road Development Plans
- Road Safety Audit
- Design and Management of Traffic Intersections and Interchanges
- Intelligent Transport System
- Traffic Safety and Analysis
- Control and Management of Environmental Pollution
- Green Highways
- Transport System Planning and Environmental Impact of Road Traffic System
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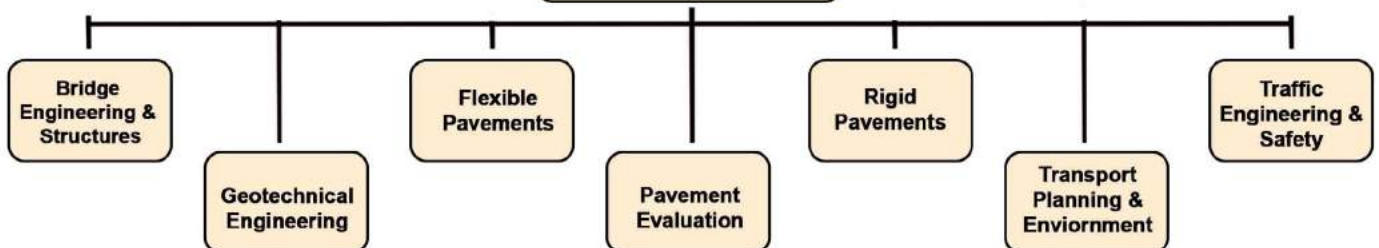
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- \* The Cut and Pull Out (CAPO) Test
- \* Post Peak flexural Test
- \* Moisture Induced Stress Tester

### Technologies Available



### R & D Areas



## CSIR - Central Road Research Institute

(Council of Scientific and Industrial Research)  
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Email: [director.crrri@nic.in](mailto:director.crrri@nic.in)

Fax: +91-11-26845943  
Website: [www.crridom.gov.in](http://www.crridom.gov.in)



In 2020-21, the total credit disbursed by all scheduled commercial banks was Rs.4865355.9 million; agriculture Rs.1583709.0 million, industry Rs.808571.4 million, transport operators Rs.75780.2 million, professional & other services Rs.235045.0 million, personal loans Rs.1468433.3 million, trade Rs.378259.2 million, finance Rs.219246.9 million and miscellaneous Rs.96311.1 million.

In 2021-22, as per the latest information available as on 19 October 2022, the total bank credit was Rs.5505604.5 million; agriculture Rs.1806010.0 million, industry Rs.795809.4 million, transport operators Rs.71266.8 million, professional & other services Rs.270696.5 million, personal loans Rs.1731818.4 million, trade Rs.470643.9 million, finance Rs.263538.2 million and miscellaneous Rs.95821.2 million.

### **GROSS INSTALLED CAPACITY OF POWER PLANTS (EXCLUDING CENTRAL SECTOR) MW**



As per the latest data available (4th March 2023), in 2018-19, the total installed capacity in the state was 21999.1 MW; total 12835.9 MW, (coal 8750.6 MW, diesel 36.8 MW, gas 4048.5 MW), hydro 1673.6 MW, renewable energy sources 7489.6 MW and non-utilities 3013.8 MW.

In 2019-20, the total gross installed capacity 22092.6 MW, thermal total 12304.1 MW (coal 8200.6 MW, diesel 36.8 MW, gas 4066.7 MW), hydro 1673.6

MW, renewable energy sources 8114.9 MW and non-utilities 3136.3 MW.

During the FY 2020-21, the total gross installed capacity, excluding central sector, was 22696.3 MW, total thermal 12304.1 MW, (coal 8200.6 MW, diesel 36.8 MW, gas 4066.7 MW), hydro 1673.6 MW, renewable energy sources 8718.6 MW and non-utilities 2852.0 MW.

### **NON-COKING COAL RESERVES 000 TONNES**

As per the available information (Source: CMIE 5/4/2022), while in 2018-19 the total non-coking coal reserves (tonnes) were 1607210.0, proved 97120.0, indicated 1078440.0 and inferred 431650.0, in 2019-20 the total reserves were 1607210.0, proved 97120.0, indicated 1078440.0 and inferred 431650.0.

During the year 2020-21, the total non-coking coal reserves (000 tonnes) were 2247220.0, proved 920960.0, indicated 901070.0 and inferred 425190.0.

## ANNUAL SURVEY OF INDUSTRIES: NUMBER OF FACTORIES – ALL INDUSTRIES

According to the Annual Survey of Industries, as on 15.9.2022, in 2018-19 there were 16296 factories, 2019-20 there were 16739 and in 2020-21 the total number of factories (all industries) were 16924.



## OUTSTANDING NUMBER OF COMPANIES REGISTERED WITH THE MINISTRY OF CORPORATE AFFAIRS (21.4.2022)

In 2018-19, there were 30530 registered companies; 19331 active, 9863 closed, 20 lying dormant under section 455 of Companies Act 2013, 52 under liquidation and 1260 under the process of struck off. In 2019-20, 33261 registered, 20468 active, 10857 closed, 27 lying dormant, 52 under liquidation and 1857 under struck off.

During the year 2020-21, 36677 were registered companies, 23725 active, 10839 closed, 29 lying dormant, 52 under liquidation and 2032 under the process of struck off.

## INVESTMENT

Andhra Pradesh is the first State in the country to have enacted the Industrial Single Window Clearance. The Act made it compulsory for the new industries to register with a single-window to obtain clearances quickly. It also simplified procedures for getting industrial clearances. The state also has separate acts for development in sectors such as solar power, electronic hardware, and food processing.

With 13 districts and a geographical area of 1,62,970 sq. km., Andhra Pradesh ranks as the 8th largest state in the country. The state has a well-developed social, physical, and industrial infrastructure, as well as virtual connectivity. It also has good power, airport, IT, and port infrastructure. The government is striving towards creating quality infrastructure, coupled with a congenial industrial environment in the state, to make AP an attractive destination for both domestic and foreign investors.



### **INVESTMENT BY ALL PROJECTS (RS. MILLION)**

As per the Centre for Monitoring of Indian Economy (CMIE) as on 31st October 2023, in 2018-19 the new investment projects announced were of Rs.1961335.5 million, investment projects completed of Rs.150077.2 million, investment projects revived of Rs.6090.0 million, total investment projects outstanding were of Rs.15985014.6 million and under implementation of Rs.7803544.4 million.

During 2019-20, the new investment projects announced were worth Rs.2063768.7 million , investment projects completed of Rs.332408.7 million, projects revived of Rs.135090.0 million, total investment projects outstanding Rs.16113053.6 million and under implementation Rs.7471388.5 million.

While in 2020-21, the total new investment projects announced were worth Rs.555958.9 million, investment projects completed were of Rs.131884.9 million, investment projects revived were of Rs.29164.7 million, the total investment projects outstanding were Rs.15547031.1 million and under implementation Rs.8445760.8 million, during the year 2021-22, the new projects announced were of Rs.1507258.6 million, investment projects completed of Rs.393340.2 million, investment projects revived of Rs.89150.0 million, the total investment projects outstanding were of Rs.15634724.0 million and under implementation of Rs.7845646.9 million.

Whereas in 2022-23, as per the latest information, the new investment projects announced were of Rs.3321858.3 million, investment projects completed of Rs.324474.9 million, investment projects revived of Rs.11612.0 million, the total investment projects outstanding were worth Rs.17905330.3 million and under implementation of Rs.7519808.3 million.




Chaitanya Godavari Grameena Bank is a Regional Rural Bank sponsored by the Union Bank of India, with the Head Office situating at Guntur, Andhra Pradesh. The Bank has emerged as a new entity from 01.03.2006 by amalgamating the erstwhile Chaitanya Grameena Bank and Godavari Grameena Bank. The Bank is operating in Guntur, Palnadu, Bapatla, East Godavari, Kakinada, Dr. B. R. AmbedkarKonaseema, West Godavari and Eluru Districts with a network of 249 Branches, 4 Regional Offices, 85 ATMs, 2 Cash Recyclers and 245 Banking Correspondents as on 31.03.2023.

**Financial Performance:**

The aggregate business of the Bank as on 30.09.2023 was Rs.19781.09 crore with deposits of Rs. 9378.47 crore and advances of Rs. 10402.62 crore (net of IBPC of Rs. 1000 crore). The Net worth of the Bank is Rs. 1157.06 Crore, Operating Profit of the Bank stood at Rs.425.52 Cr and Net NPA of the Bank is '0' - which reflects that the Bank is financially strong and sustainably generating profits along with instilling confidence in the shareholders with strong risk management policies.

Chaitanya Godavari Grameena Bank - the only public sector Bank which is offering highest interest rates on deposits in the Market.



# CHAITANYA GODAVARI GRAMEENA BANK

A Govt. Undertaking Sponsored by Union Bank of India

**A Govt. Undertaking Bank ROI Paying on Deposits**

**General Citizens**

**8.10%**

**1 Year to 2 Years Below**

**Senior Citizens**

**8.60%**

**Better Rate of Interests on Fixed Deposits**

Time Period	Below 1 Crore ROI (P.A)	1 Crore & Above ROI (P.A)
<b>15 Days to 45 Days</b>	<b>4.25</b>	<b>3.75</b>
<b>46 Days to 90 Days</b>	<b>6.00</b>	<b>5.75</b>
<b>91 Days to 179 Days</b>	<b>6.50</b>	<b>6.25</b>
<b>180 Days to 364 Days</b>	<b>7.25</b>	<b>7.00</b>
<b>1 Year to 2 Years Below</b>	<b>8.10</b>	<b>7.85</b>
<b>2 Years to 10 Years</b>	<b>7.25</b>	<b>7.00</b>
<b>Senior Citizens</b>	<b>0.50%</b>	<b>Additional</b>
<b>Akshaya Term Deposit (Non-Callable)</b>	<b>8.00%</b>	<b>1 Year</b>

## INVESTMENT PROJECTS BY GOVERNMENT RS.MILLION



As per the data available with the Centre for Monitoring of Indian Economy (CMIE) on 31st October 2023, the new investment projects announced in 2018-19 were of Rs.924481.2 million, projects completed of Rs.63729.6 million, projects revived of Rs.6090.0 million, the total investment projects outstanding were of Rs.8574654.5 million and under implementation Rs.5472421.1 million.

In 2019-20, the new investment projects announced were of Rs.1701394.0 million, completed projects worth Rs.71452.8 million, projects revived of Rs.21290.0 million, the total investment projects outstanding were of Rs.10211772.0 million and under implementation of Rs.5353165.8 million.

2020-21 witnessed a slow down due the Covid-19 and the new investment projects announced were Rs.211170.8 million, completed projects of Rs.22371.4 million, revived projects of Rs.26441.3 million, the total investment projects outstanding were of Rs.10393642.2 million and under implementation of Rs.6498530.2 million.

During the FY 2021-22, investment projects announced were of Rs.1311687.1 million, completed the projects of Rs.279143.7 million, revived the projects of Rs.2400.0 million, the total outstanding projects were of Rs.10980570.0 million and under implementation Rs.5952497.8 million.

In 2022-23, the new investment projects announced were of Rs.232927.3 million, investment projects completed of Rs.89212.0 million, investment projects revived of Rs.11472.0 million, total investment projects outstanding of Rs.10655261.6 million and under implementation of Rs.5648683.5 million.



## INVESTMENT PROJECTS BY PRIVATE SECTOR RS.MILLION

As per the information on 20 October 2023, in 2018-19, the new investment projects announced by the private sector in the state were of Rs.1036854.3 million, completed the on-going projects of Rs.86347.6 million, the total investment projects outstanding were Rs.7410360.1 million and under implementation of Rs.2331123.3 million.



In 2019-20, the new projects announced were of Rs.362374.7 million, completed projects of Rs.260955.9 million, revived projects of Rs.113800.0 million, total outstanding projects of Rs.5901281.5 million and under implementation of Rs.2113822.7 million.

During 2020-21, the projects announced were of Rs.344788.1 million, completed projects of Rs.109513.5 million, revived projects of Rs.2723.4 million, total outstanding projects were of Rs.5153370.9 million and under implementation of Rs.1947230.6 million.

In 2021-22, the new investment projects announced were of Rs.195571.5 million, completed projects of Rs.114196.5 million, revived projects of Rs.86750.0 million, the total outstanding investment projects were of Rs.4654154.0 million and under implementation of Rs.1893149.1 million.



During the FY 2022-23, the new investment projects announced were of Rs.3088931.0 million, the on-going projects were completed of Rs.235262.9 million, revived the projects of Rs.140.0 million, the total investment projects outstanding were of Rs.7250068.7 million and under implementation Rs.1871124.8 million.



सीएसआईआर  
हिमालय जैवसंपदा प्रौद्योगिकी संस्थान  
सीएसआईआर की एक संघटक प्रयोगशाला  
पालमपुर (हि.प्र.) 176061



संस्थान में निम्नलिखित व्यवसायिक उत्पादन प्रौद्योगिकियों एवं प्रक्रमण प्रक्रिया हेतु संपर्क करें-

सगंध एवं औषधीय, पुष्प और औद्योगिक फसलों की सघन कृषि, हींग (*Ferula assa-foetida* L.) एवं केसर (*Crocus sativus* L.) की खेती, मोंक फ्रूट [Monk fruit (*Siraitia grosvenorii*): low calorie natural sweetner, Apple: low chilling variety apple, चाय मूल्यवर्धन, कुपोषण निवारण, एपीकल्चर, सेरिकल्चर, दालचीनी (Chinnamon), रोग-प्रतिरोधी क्षमता एवं स्वास्थ्य वर्धक खाद्य सामग्री, सौंदर्य प्रसाधन, कंपोस्ट बूस्टर: ठंडे प्रदेशों के लिए (Compost booster: cold region) Biofertilizer एवं अन्य लाभप्रद प्रौद्योगिकियाँ ।

संपर्क करें:

निदेशक, सीएसआईआर - हिमालय जैवसंपदा प्रौद्योगिकी संस्थान  
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## TOURISM INDUSTRY IN ANDHRA PRADESH

Tourism is the third most visited state and most visited for religious tourism in the country and offers a lot of promise for investors. The state has a rich history and a number of attractions that makes it a popular tourist destination.

**The major tourist places in the state include:**

**- Hyderabad**



**- Visakhapatnam**



**- Gandikota**



- Kadapa



- Madanapalle



- Warangal



- Horsley Hills



- Srisailem



- Guntur



- Chittoor



- Nellore



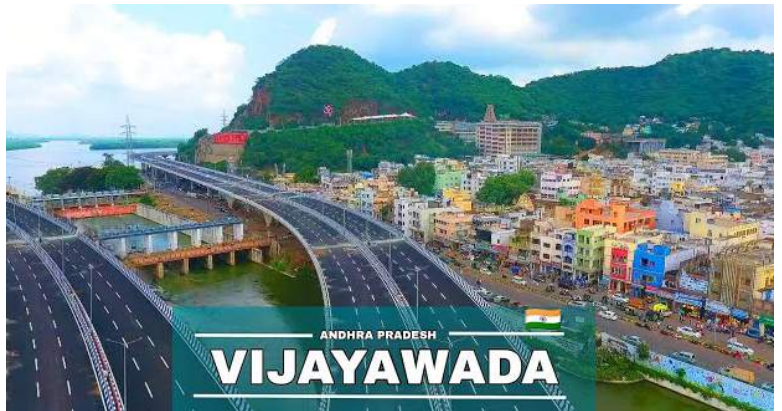
- Araku Valley



- Tirupati



- Vijayawada



- Amaravati & many more





# CSIR-INSTITUTE OF MINERALS AND MATERIALS TECHNOLOGY

Council of Scientific and Industrial Research  
Bhubaneswar-751013, INDIA

## CORE AREA COMPETENCY

- ▶ Material characterization
- ▶ Mineral beneficiation, pelletisation and agglomeration
- ▶ Extraction of metals from ores, sludge and scraps
- ▶ Plasma processing of materials
- ▶ Nanomaterials, bio materials and energy materials
- ▶ Coatings, thin films, alloys, composites
- ▶ Green technology for industrial waste management
- ▶ Drinking water filtration and wastewater recycling
- ▶ Environmental impact assessment
- ▶ CFD/DEM modelling and simulation



Constructed wetland for waste water treatment



XPS



Particle Size Analyzer

## INDUSTRY INTERFACE

- ▶ Technology development for mineral, material, metallurgical and chemical industries
- ▶ Contract research and consultancy for process optimization
- ▶ TEFR and Basic engineering packages in core area
- ▶ Testing of water quality and components in ores, rocks, soils, slags, and processed products
- ▶ Skill development



High Concentration Slurry Transportation



CNC Turning & Milling Machines

## FACILITIES

- ▶ Mineral processing pilot plant
- ▶ SOPs for extraction of materials from industrial wastes
- ▶ Coal characterization
- ▶ Processing of natural gemstones for value addition
- ▶ State-of-the art analytical equipments for characterization of ores, minerals & materials
- ▶ Commercial scale production facility for fly ash and red mud building materials
- ▶ Mechanical workshop for design and fabrication
- ▶ Biomass operated cook stoves and testing lab
- ▶ Technology validation



Fly Ash & Red Mud Bricks



EPMA



XRD



Plasma Spray Coating



Column Flotation Unit



Hydrogen Plasma Reactor



TEM



X-ray Micro CT



Microwave Plasma Reactor



Scanning Electron Microscope



### CONTACT US

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## IT/ITES & SOFTWARE INDUSTRY



The software industry in Andhra Pradesh is conveniently spread out to different cities, namely Visakhapatnam, Tirupati and capital city Vijayawada, and not clustered just in the capital, leading to so many social, economic and political problems. At present, there are around 250 IT companies in the state with annual turnover in the range of Rs.1 crore to Rs.500 crore. All these firms combined employ nearly 35,000 people.

Andhra Pradesh earns the fourth largest revenues in IT exports amounting to Rs.185 crore, accounting for about 15 per cent of the total IT/software exports from India. the biggest IT companies of Andhra Pradesh are:

- Tata Consultancy Services
- Capgemini
- Amazon
- Cognizant Technology Solutions
- IBM
- Tech Mahindra
- Concentrix
- HCLTech





## MSME & STARTUPS & INNOVATION

The micro, small and medium enterprises (MSME) sector is emerging as a dynamic sector of the nation's economy. The MSME sector in Andhra Pradesh manufactures a variety of products with the majority of the micro and small units actively engaged in sectors such as agri & food processing, aqua processing, automotive, textiles, minerals, granite, leather, fabricated materials, construction material, renewable energy, handicrafts, etc. The state government is handholding MSMEs training to enhance skill sets, providing fiscal incentives, providing preferential market access, enabling export ecosystem through initiatives like One District One Product (ODOP) etc.

### **Some of the key initiatives are:**

- Preferential market access to MSMEs in all government procurements.
- Extended ReSTART package to MSMEs during lockdown to bail them out of financial crisis.
- Under YSR Navodayam (one time restructuring of MSME loans) 1.78 lakhs MSME whose accounts, worth more than Rs.7,976 crore was restructured.
- Extending incentive under Industrial Development Policy and YSR Jagananna Bodugu Vikasam Policy to nurture MSMEs.
- To promote micro enterprises by women entrepreneurs, the state is implementing the schemes such as YSR Cheyutha and YSR Aasara.
- As part of the cluster development programme, the state has set a target of grounding 100 clusters in the next two years, out of which 52 clusters are proposed to establish during the FY 2022-23 @ 2 clusters per each district.
- Initiated industries – Spandana – a One-Stop grievance redressal system to enable easy and fast resolution of queries/grievances.
- Continuous Monitoring of MSMEs through industry health analysis and taking up necessary remedial measures.



The state is building a tech entrepreneurial ecosystem by the promotion of incubation centres under the aegis of Andhra Pradesh Renovation Society (APIS); a nodal agency set up to spearhead the startup activities in the state and promote building entrepreneurs amongst Universities and Colleges. APIS, with the support of the state government, has developed the incubators spread over 51,213 sft. in the Innovation Valley, Visakhapatnam, 6500 sft. in Incubation Tower at Kakinada, 2,300 sft. in Vijayawada and 6,300 sft. at Tirupati, APIS has also supported the formation of 26 Incubators (7 by the government & academia, 2 by NGOs and 17 by private academia incubators). The government of Andhra Pradesh is also operating on the “Boot-up – Start-up – Scale-up” model focusing on the first generation technology based entrepreneurs contributing to employment generation, new products, services, and social transformation.

### **Some of the key initiatives are:**

- Entrepreneur Innovation & Startup Cells (EISCs) have been started and students across 534 colleges in the state are being nurtured to follow their ideas and become entrepreneurs.
- Incubators such as the Atal Incubation Centre at Krishnadeveraya University and 25 TBIs with domain expertise across sections being set up.
- APIS continuously conducting hackathons/challenges across Fintech, Agritech, the logistic sector, etc. to discover innovative technology solution for pressing problems in society.

According to official data from the Andhra government, there are 60,800 MSMEs in the state employing over 5.60 lakh people. A list of businesses that comes under MSME includes the following:

- Leather products
- Moulding of products like combs, umbrella frames, plastic toys, etc.
- Natural fragrance and flavours.
- Placement and management consultancy services.
- Training and educational institute.
- Energy efficient pumps.
- Xeroxing.
- Beauty parlour and crèches.
- Auto repair services and garages.
- X-ray clinics.
- Equipment rental and leasing.
- Photographic lab



- Servicing of agricultural farm equipment including tractor, pump repairing, ring boring machine
- Back office operation relating to computerized data
- STD/ISD booths
- Retail trade and low capital
- Multi channels dish cable TV with dish antenna
- Laundry and dry cleaning
- Toughened metallic ware
- Automotive electronic component products
- Electronic surveillance and security
- Mechanical engineering like steel almirah, cocks, an valves, wire cutters etc
- Engineering and fabrication
- Recorders, VCRs, radios, transformer, motors, watches
- Micronutrients for plants
- Active pharmaceutical ingredients and ayurvedic products
- Khadi and hosiery products
- Handicraft activities like spinning, weaving, artisans
- Printing and other products made of paper
- Coir industry
- Furniture and wood products
- Poultry farm
- Bicycle parts
- Stationery items
- Call centre
- Rubber products, IT solutions like creating a server bank, application service provider, smart card customization, etc
- Testing labs for industries
- Auto parts components like horn buttons, door channels, wiper blade components, battery cell tester
- Ceramic and glass products include roofing tiles, glass flooring tiles, granite, etc
- Retail and wholesale business

**NOTE: Please visit official Udyam portal website for more information on the businesses considered as MSME.**



## About Confederation of Organic Food Producers and Marketing Agencies

The Confederation of Organic Food Producers & Marketing Agencies, established in 2018, is the umbrella body of the organic food producers, processors, marketing agencies, buyers/sellers, certifying agencies, seed suppliers, consultants and other stakeholders. The objective of the Confederation is:

- to promote nature-friendly, scientific, farming systems and practices that are economically viable, energy efficient, climate friendly.
- simultaneously oriented towards the conservation of the environment and the empowerment of rural communities, building upon indigenous and traditional knowledge, skills and practices.
- help/guide farmers on how to undertake organic farming, assist farmers engaged in transitional organic farming to access practical know-how from experienced families or farmers through various means.
- to create awareness among all sections of consumers about the determinants of conventional chemical agriculture and consequences.
- to work closely with other organic farming associations, farmers associations in India and internationally in order to strengthen the organic farming movement.
- to hold programmes all over the country, take farmers to exhibit at international exhibitions, buyer/sellers meet that will help them directly.
- to lobby with Centre and State Governments for a conducive environment for the organic food industry.

It may be mentioned that India holds a unique position among 187 countries practicing organic agriculture. India is home to 30 per cent of total organic producers in the world having 2.30 million ha.

### There is urgent need of the organic farming in India as:

- \* the organic food industry is rising and is growing very fast ensuring high profitability,
- \* food security needs to be addressed with the growing population and decreasing supply of resources
- \* maintaining a clean and green environment is extremely important and, therefore, environmental sustainability needs to be maintained.
- \* There needs to be an improvement in health as consumption may lead to many diseases.
- \* strike balance between the environment and livelihood

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## ABOUT MSME EXPORT PROMOTION COUNCIL

The micro, small and medium enterprises (MSMEs) has emerged as a highly vibrant and dynamic sector of the economy. It contributes significantly in the economic and social development of the country by fostering entrepreneurship and generating largest employment opportunities at comparatively lower capital cost, next only to agriculture. MSMEs are complementary to large industries as ancillary units and this sector plays extremely important role in the inclusive industrial development, and empowerment of rural sector.

The MSMEs are widening their domain across sectors of the economy, producing diverse range of products and services to meet demands of domestic as well as global markets. As per the MSME Industry Report, micro (manufacturing & services) stands for turnover up to Rs.5 crore, small turnover up to Rs.50 crore and medium turnover Rs.250 crore. With around 63.4 million units throughout the geographical expanse of the country, MSMEs contribute over 6.11% of the manufacturing GDP and 24.63% of the GDP from service activities as well as 33.4% of India's manufacturing output. The share of export of specified MSME related products to All India exports is around 50% in 2020-21.

The MSME Export Promotion Council, a non-profit organization, is incorporated as Section 8 of the Company Law by the Ministry of Corporate Affairs, Government of India. The Council acknowledged as the fountain-head of knowledge, works closely work with the Centre and State Governments, Associations of micro, small and medium enterprises to help, promote and encourage these units.

The focus of services and activities is enhancing the entrepreneurial skill development, training, enriching the knowledge on various laws, promotion of women entrepreneurship especially in the North Eastern Region and SC-ST communities, connecting them with knowledge digital firms, fintech companies and importers/exporters, etc.

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# सी एस आई आर-नीरी

पर्यावरण विज्ञान एवं अभियांत्रिकी में अग्रणी



- पर्यावरणीय समस्याओं का विज्ञान एवं प्रौद्योगिकी द्वारा समाधान
- उद्योग एवं समाज के हित में प्रौद्योगिकी हस्तांतरण

## सी एस आई आर - नीरी के राष्ट्रीय लक्ष्य

- वैश्विक वैज्ञानिक प्रभाव
- प्रवर्तन-चालित उद्योग
- सामाजिक-आर्थिक विकास

### वर्तमान अनुसंधान एवं विकास गतिविधियां

पारिस्थितिकी बहाली



ठोस एवं जोखिमकारी अपशिष्ट प्रबंध

जल प्रौद्योगिकी एवं प्रबंध



अपशिष्ट जल प्रौद्योगिकी

वायु प्रदूषण नियंत्रण



पर्यावरणीय पदार्थ

पर्यावरणीय प्रभाव एवं जोखिम मूल्यांकन, आडिट



पर्यावरणीय जैवप्रौद्योगिकी, जीनोमिक्स, स्वास्थ्य, विषाणुविज्ञान

### उपलब्धियां



अपशिष्ट जल के उपचार के लिए फाइटोरिड प्रौद्योगिकी



जल में से फ्लोराइड के निष्कासन के लिए इलेक्ट्रोलेटिक डिप्लोरिडेशन

### अनुसंधान एवं विकास प्राथमिकताएं

- राष्ट्रीय शुद्ध वायु मिशन
- शुद्ध जल के लिए दीर्घकालिक विकल्प
- अपशिष्ट जल का उपचार एवं पुनर्प्रयोग
- ठोस अपशिष्ट का उपयोग एवं प्रबंध
- स्टॉकहोम कन्वेंशन के तहत पर्सिस्टेंट ऑर्गेनिक पोल्यूटेंट की मात्रा का निर्धारण और इसमें कमी लाने के लिए प्रयास
- रुढ़िगत पर्यावरण प्रभाव एवं जोखिम मूल्यांकन से कैरिंग कपेसिटी आधारित विकासात्मक योजना अध्ययन की ओर अग्रसर
- कार्बन डाई आक्साइड सिक्वेस्ट्रेशन और वेलोराइजेशन
- जलवायु परिवर्तन
- स्वच्छ प्रौद्योगिकियों का विकास

### महत्वपूर्ण परियोजनाएं



अपशिष्ट से जैवईंधन



राष्ट्रीय राजमार्ग पर हरित गलियारे का विकास


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