

# **A SURVEY ON IMPACT OF AIR POLLUTION OF BGGPL IN BALLARPUR CHANDAPUR DISTRICT**

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## **Abstract:-**

**Air pollution refers to any physical, chemical or biological change in the air. It is the contamination of air by harmful gases, dust and smoke which affects plants, animals and humans drastically.**

**There are a certain percentage of gases present in the atmosphere. An increase or decrease in the composition of these gases is harmful to survival. This imbalance in the gaseous composition has resulted in an increase in earth's temperature, which is known as global warming. There is no well defined method for assessing the impact on air quality due to industrial projects.**

**Currently there is no effective management and controlled practices for pollution prevention and control, but authorities have started to pay attention in this regard. Pollution control has become the primary concern of the environment today. The objective of this paper is to explore the impact of environmental pollution on the environment and society. To Study the various problems faced by people residing in nearby areas.**

**Key words: - Pollution, Social Issues, Respiratory problems.**

## **Introduction:-**

Rapid population growth and uncontrolled industrial development are seriously degrading the urban and semi-urban environment in many of the developing countries placing enormous strain on natural resources and undermining efficient and sustainable development. Industrialization leads to considerable generation of hazardous waste and in rapidly industrializing countries such as India the contribution to hazardous waste from industries are largest. Hazardous waste generation from industries is also critical due to their large geophysical, spread in the country, leading to region wide impacts. Due to liberalization policy the pace of industrialization has been accelerated, which has resulted in increasing amounts of hazardous waste every year. This along with a growing amount of municipal solid waste due to rapid urbanization and inadequate policy and technological measures, continues to remain a daunting issue of environmental concern to India.

Environmental Protection Agency (EPA) defines “any waste or combination of wastes of a solid, liquid, contained gaseous, or semisolid from which because of its quantity, concentration or physical, chemical or infectious characteristics may cause or significantly contribute to an increase in mortality or an increase in serious irreversible or incapacitating reversible illness or pose a substantial present or potential hazards to human health or the environment when improperly treated , stored, transported or disposal of, or otherwise managed. effects on human wellbeing or even to animal as clearly stated by the Centers for Disease Control and Prevention.

The air in factory can be contaminated by presence of other gases such as carbon monoxide, hydrogen sulfide, methane, fine dust particles and excess of carbon dioxide.

The findings show that air pollution identified in large amount. Most of the people suffered from respiratory problems. The most common method for disposal of waste flow in rivers. The major problem always found about odour smell which affects health easily.

Profile of Ballarpur. Ballarpur Industries Limited (BILT) is a subsidiary of Avantha Group, and was once India’s Largest Manufacturer of writing and printing paper. The current chairman of the company is Gautam Thaper, who succeeded his late uncle L.M. Thaper. District Chandrapur, Maharashtra, India. The BGPPL is located near Tadoba Andhari Tiger Reserve and falls in the corridor of Umred Karhandla Wildlife Sanctuary, Tadoba Andhari Tiger Reserve.

## **Profile of Chandrapur city:**

Chandrapur district is known for its cleanliness. Now [Chandrapur city](#) is in the top 10 cleanest cities India and 2 in Maharashtra after Navi Mumbai by The minister of housing and urban affairs rank cities based on the cleanliness index.

[Tadoba Andhari Tiger Reserve](#) in the district is one of India's twenty-eight [Project Tiger](#) reserves. The 2015 census of [tigers](#) found that 120 of Maharashtra's 170 tigers were located in Chandrapur district.

## **Objective**

1. To assess the type of pollution present due to industrial waste.
2. To identify the effect of Industrial waste on people's health.

## **Hypothesis**

1. Respiratory problems are prominent.
2. There are certain problem like damages to property and agricultural land.

## **Research Methodology:-**

The study under taken is descriptive in nature, for the collection of data following resources were used.

1) Primary Data

2) Secondary Data.

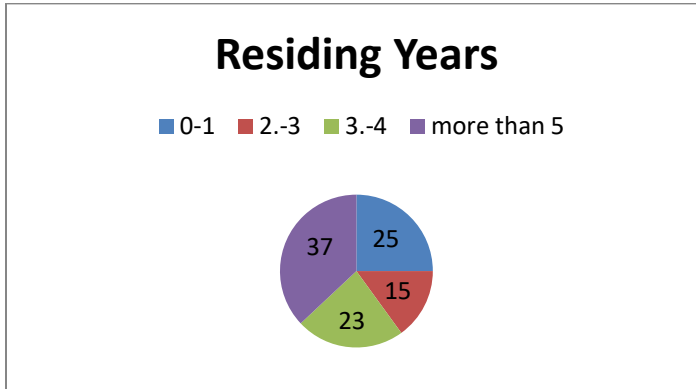
1) Primary Data: - Primary data collection methods can be divided into two groups: quantitative and qualitative. Primary data was collected through close ended questionnaire.

Sampling: - The universe of the study covers Ballarpur in Chandrapur district as its population. The sampling is selected by using convenient sampling and the sample size was confined to 100. The present study is restricted to health issues due to pollution only other categories will be eliminated due to time and cost constraints,

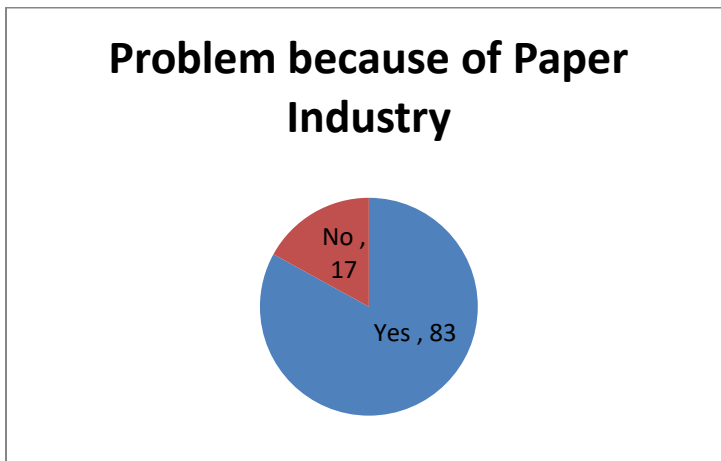
2) Secondary Data: - Secondary data is a type of data that has already been published in books, newspapers, magazines, journals, online portals etc. There is an abundance of data available in these sources about research area, almost regardless of the nature of the research area.

## Data Analysis

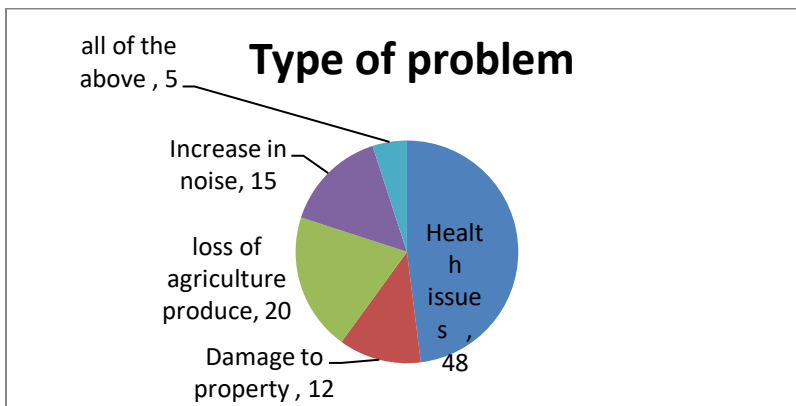
1. Since how many years residing in this area?



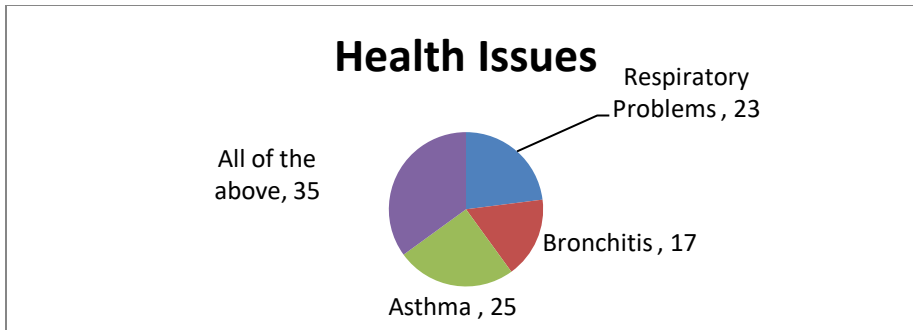
2. Did you face any problem because of Paper Industry?



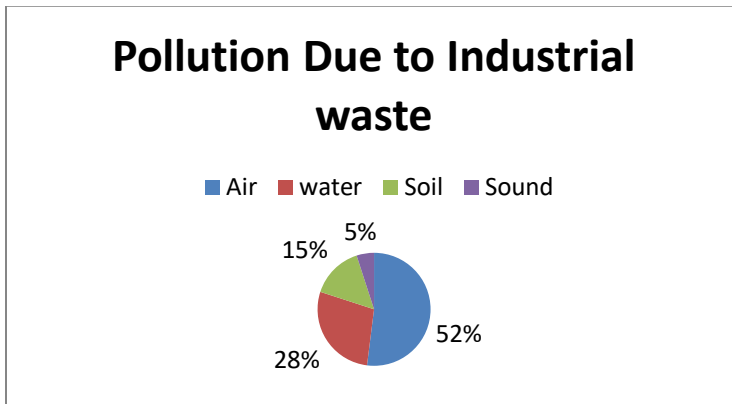
3. What type of problem?



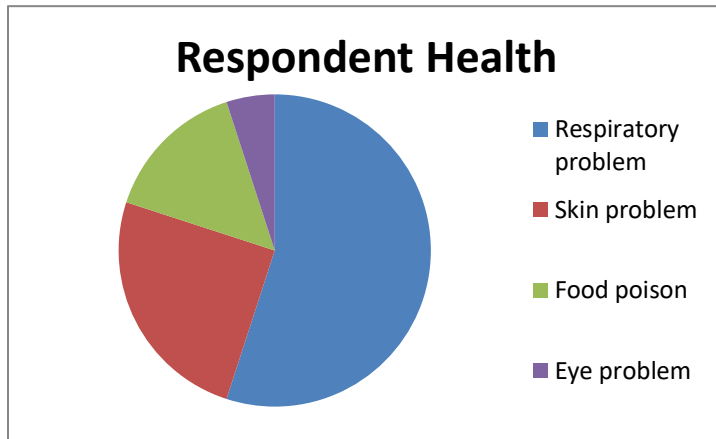
4. Which type of health issues?



5. Types of pollution found by the respondents due to Industrial waste



7. Effect of Industrial waste on respondents' health.



**Finding & Conclusion:-**

It can be concluded that due to hazardous Industrial waste of Ballarpur paper mill people faced many health problems. Air pollution found everywhere in the Ballarpur. Concentrated metals represents considerable hazard to the environment. Hence respiratory problems arise in the

society. Mostly the disposal of industrial waste was dump in the river hence more pollution occurs. Due to odor smell found in the area people suffered a lot and faced many constraints and health affects easily.

### References:-

1)[https://www.google.com/search?q=bgppl+air+pollution+pdf&sca\\_esv2](https://www.google.com/search?q=bgppl+air+pollution+pdf&sca_esv2)2)<https://nopr.niscpr.res.in/>

2)[https://www.researchgate.net/publication/281479623\\_Air\\_Pollution\\_due\\_to\\_Opencast\\_Coal\\_Mining\\_and\\_Its\\_Control\\_in\\_Indian\\_Context](https://www.researchgate.net/publication/281479623_Air_Pollution_due_to_Opencast_Coal_Mining_and_Its_Control_in_Indian_Context).

## Questionnaire

1. Name \_\_\_\_\_
2. Email: \_\_\_\_\_
3. Date of Birth \_\_\_\_\_
4. Qualifications
  - a) SSC      b) HSC      c) Graduation   d) Post Graduation
  - e) Doctorate      f) Other
5. Occupation:-
  - a) Business      b) Service   c) Housewife   d) Student
6. City                      Ballarpur   District Chandrapur  
State                      Maharashtra
7. Genders:
  - a) Male      b) Female      c) Transgender
8. since how many years residing in this area?
  - a)0 -1 years      b) 1-2 years   c) 2-4 years   d) More than 5 years
9. What type of problem?
  - a) Health issues   b) Damage to property   c) loss of agriculture produce   d) consistent increase in temperature   e) all of the above
10. Which type of health issues?
  - a) Respiratory Problems      b) Bronchitis      c) Asthma      d) All of the above
11. Did your medical expenses increased?

a) Yes                      b) No

12. Is there any damage to property?

a) Yes                      b) No

Any Other Information\_\_\_\_\_