



**UGC MINOR RESEARCH
PROJECT REPORT ON
“IMPACT OF MINING ON PEOPLE
AROUND MINING AREA”**



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Certificate

This is to certify that the project report entitled “Impact of Mining On People Around Mining Area” is a bonafied research work done by Dr. K M Manjunath and K M Ambika devi **Ref.No. MRP (H)-656/09-10KAGU028/UGC-SWRO-08.01.2010 (XI plan)** submitted to the UGC in fulfillment of the requirement of UGC as per plan and that project work has not previously formed the basis for the award of any other degree, diploma, fellowship or other title and that the project work represents independent and original work of the researchers.

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Signature of the researchers

Prof. S S Police Patil

Signature of the principal

Acknowledgement

To say thanks to the people who matter much in our lives through their act kindness, may be etiquette but often these words act like cultural symbols that convey our profound sense of gratitude towards people who help us. Human relation becomes stronger and sweet when we learn to say thanks to those who helped us selflessly.

We owe a deep sense of gratitude to his holiness Shri Shri Chanveera Sharanarubalaganurmata for his kind blessings in our life.

It is with immense pleasure to acknowledge our irredeemable indebtedness to all the office bearers of **UGC Bangalore and Delhi Centre** for providing encouragement and financial assistance to carry out this minor research project.

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Finally I owe thanks to my affectionate wife late smt. K M Ambika Devi, Who passed away just before completion of this minor project work, hence, I would like to dedicate this work to her sacred soul. My thanks are also due to my family members for their kind support in this regard.

Dr. K M Manjunath

K M Ambikadevi

Contents

Page no	1-110
Tables of contents	I
List of abbreviations	II
LIST OF TABLES	III
EXECUTIVE SUMMARY	IV

UNIT NO. TABLES OF CONTENTS

- 1. MINING INDUSTRY: introduction,** 1-06

Mining Industry in Karnataka in general, mining industry in Bellary district in particular. statement of the problem, objectives,
Need for the study, scope, review of earlier Literature, research methodology and research design.
- 2. MINING INDUSTRY AND ENVIRONMENT :** 07-32
MINING AND POLLUTION : Pollution, pollutants its effects on humans
types of pollution: Air, water, soil and sound.
- 3. MINING AND SOLI FERTILITY: PREVENTION AND CONTROLLING MEASURES** 37-74
effects of mining
On vegetation, control of soil erosion, waste Dumps management, rain water management.
Environmental and ecology management systems.
- 4. ANALYSIS AND INTERPRETATION OF DATA** 75-99
- 5. FINDINGS AND CONCLUSIONS** 100-110

BIBLIOGRAPHY

LIST TABLES

TABLE NO	TITLE OF TABLE	
PAGE NO		
	• Reasons for low literacy rate	75
	• Do you feel that you people are deprived of primary education due to child labour in mining area	76
	• Do you think that child labour is there in mining area	77
	• Do you feel that because of child labour in mining the children are deprived of education?	78
	• Do you agree that mining activity entertains child labour	79
	• Do you feel that the remuneration obtained from mining is reasonable	80
	• Do you think that the people of this area suffering from chronic deceases	81
	• Are you suffering from any chronic decease	82
	• Causes for ill-health.	83
	• Do you feel that adequate hospital facility is present near the mining area	84
	• Do you feel that the doctors are available in the hospitals during the office hours	85
	• Do you think that lack of adequate hospital and medicines leads to poor health of the people	86
	• Give your opinion about Distribution of medicines by the govt hospitals	87
	• Do you think that the environment of pollution is due to mining and its transportation	88

- **Roads are seriously damaged and they create problems to the civilions due to mining transportation** **89**
- **Do you feel that afforestation is not effectively undertaken by the mining authorities** **90**
- **Whether check dams are adequately constructed for avoiding environmental pollution** **91**
- **Living condition of human being and animals is worse in mining area** **92**
- **Is Agricultural activity is adversely affected by mining activity** **93**
- **Agricultural production level decreases due to deposition of metal particals on the crops** **94**
- **Would you like to leave this place for betterment of future generation** **95**
- **Do you have any untold or hidden problems arising from mining activities** **96**
- **Do you expect any favorable situation from mining activities in the years to come** **97**
- **Do you expect the government to take necessary actions to avoid the adverse impact of mining on people** **98**
- **Do you think that the standard of living of people declines ,if mining activity continuous in the same way** **99**

Executive Summary

The researcher has conducted the field survey to study the overall impact of mining on people residing in and around mining area. For the purpose of field survey, the researcher has selected two prominent taluks of Bellary district where the heavy mining is concentrated. i.e. Hospet taluk and Sandur . The sample size of the population is limited to 150, which is divided into 90 samples from Hospet taluk and 60 samples from Sandur taluk. Following villages are being selected for the field work such as Kariganur, Bayalavaddigere and Jaisingpur which are closely attached to the mining area.

The researcher has visited the above places and approached the respective respondents and discussed deeply regarding their usual problems with regarding mining activities. The same information has been preserved in the form of questionnaire and personal tips.

The total respondents were 150, 107 are men and 43 are women of different age group. approximately 20% of respondents are belongs to the age group of below 20 years, 32% of respondents belongs the age groups of between 20 and 30 years, 20% of members belong to age between 30-40 years, and 15% of respondents are in the age between 40-50 years, 13% of respondents belong to above 50 years of age. 58% of respondents are married and 35% are unmarried and 07% of respondents are widowers.

Nearly 29% of population is illiterate. That too, they did not see the doors of the pre-primary schools. 18.18% of respondents have completed pre primary and primary education, 26.36% of people have completed secondary education and only 21% have completed graduation and only 6.2% have completed post graduation courses. It is really amazing to know

that, these places are situated very near to Hospet and Sandur cities, These two cities are known for primary to Post graduation level of education.

It is very clear that mining is one of the oldest Industry as old as civilization and at the same time it is a fastest growing industry also. After going through entire study of the project it is learnt that mining industry as created so much damages to the people as well as the environment of the mining area. The researcher felt that the government should take necessary actions in order to protect the interest of the people living in and around mining area.

Chapter-1

Statement of the problem:

The ultimate success of any industry whether mining or non-mining is reflected through its capacity to add some value to the environmental and economical development of a country as a whole. In other words mining industry is said to be successful provided, it has been able to provide good working atmosphere to the workers. Any Deterioration in the physical chemical and biological quality of the environmental effects not only on human health, flora and fauna but also the prosperity of the country. Therefore, a study which aims at examining an operating performance on mining industry and studying the present status of environment and compares it with standards and suggesting measures to correct any deviation. **Hence, the statements of the problem: Impact of Mining on people around Mining Area.** It is the right of the people to protect themselves from the exploitation and at the same time it is the duty of the government to neat better living condition.

1. Health is more important than anything.
2. Impact of mining on people around mining area.

Objectives of the study:-

1. To study the education level of village people due to mining.
2. To evaluate the health condition of villagers around mining area.
3. To study the overall impact of mining on people.
4. To analyse the effect of mining on environment.
5. To study the impact of mining on soil fertility.
6. To analyze the causative factors for the existing environmental degradation.
7. To evaluate the working condition in mining in area.
8. To study the adequacy of measures undertaken.
9. To study the health condition of working women and child labor.
10. To effect suggestion for improving environment and ecology.

Scope of the study: This study may provide exact reasons from which people of mining area are suffering and solution for improving the same.

Review of earlier Literature:

A review of earlier literature regarding mining industry and its impact undertaken by the researcher at the state level and National level has

been used with an objective of exploring the real need for the present study and also to make the present study quiet distinct from earlier studies.

Sources of Data

The present study is based on primary data and secondary data. The primary data required for the study has been collected from the respondents through questioners and personal discussion with the officer and in charge of mining and Geology department of hopset and sandur taluk of Karnataka.

Secondary data has been collected from journals and Magazines, etc., published by the mining and forest department.

The present study covers mining activity in and around the hospet area in Karanataka. It is a case study with a micro focus on all major affecting areas of mining. For the purpose of examining the trend in environmental imbalance, mining operation in and around hospet and sandur taluk has been selected for the field study. This work deals with diagnosis of all the areas of environment such as air pollution, sound pollution etc,

Research Methodology:

The information collected from the respondents through questionnaire is summarized and analyzed in the form of tables with concrete interpretation. The data collected from primary and secondary sources has been properly analyzed to make the present study more meaningful. The researcher has visited the mining area frequently and observed with keen attention about the mining operation like dumping of wastes, construction of check dams.

The detailed procedure is being followed for evaluating the different impact of mining and the same has been enumerated at the appropriate places in the respective chapters.

Research Design:

The present study has been arranged in five units:

Unit – 1 Mining Industry: the production chapter throws light on significance of the mining industry, its impact , need for the study, and scope of the study, research methodology, research design, review of earlier literature and some concepts of environment management system.

Unit – 2 Mining Industry and Environment: Mining and Pollution: The second unit deals with pollution and its effect on human beings. The third unit highlights the picture relating to the types of pollution; air, water, soil, and sound.

Unit – 3 Mining and soil fertility prevention and controlling measures: The fourth unit deals with effects of mining on vegetation, control of soil erosion, waste dumps management, rain water management, this highlights the picture relating to environmental awareness and education, environmental and ecology management system.

Unit – 4 ANALYSIS AND INTERPRETATION OF DATA

Unit – 5 FINDINGS AND SUGGESTIONS: The last unit throws light on findings and suggestions to protect the health of people and environment around the mining area.

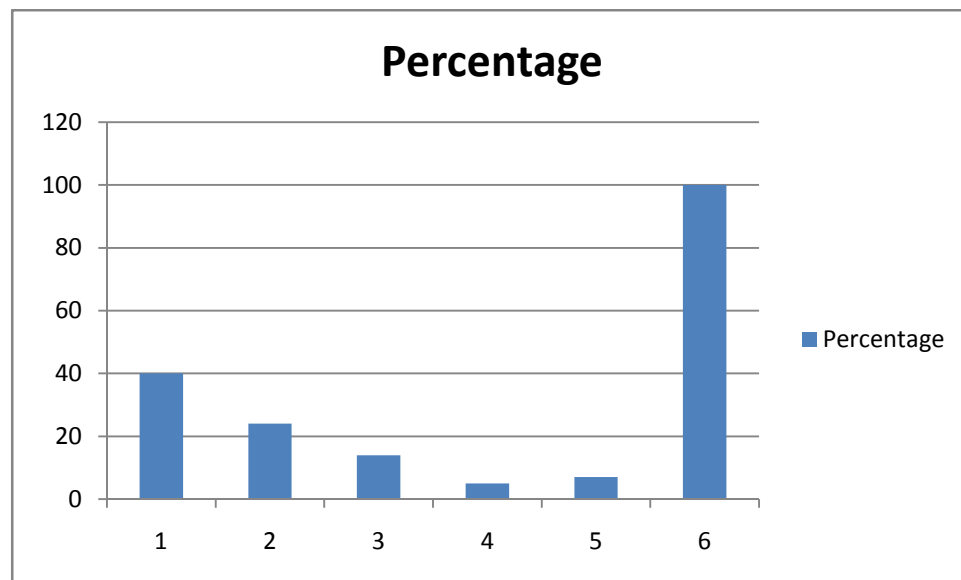
BIBLIOGRAPHY

Analysis of Data with Interpretation

Table 1: Reasons for low literacy rate

S.No	Opinion	No of respondents	Percentage
1	Poverty	60	40
2	Lack of facility	36	24
3	No support	21	14
4	Ill health	07	05
5	Silent	26	07
Total		150	100

Source: primary data collected from filed Survey.

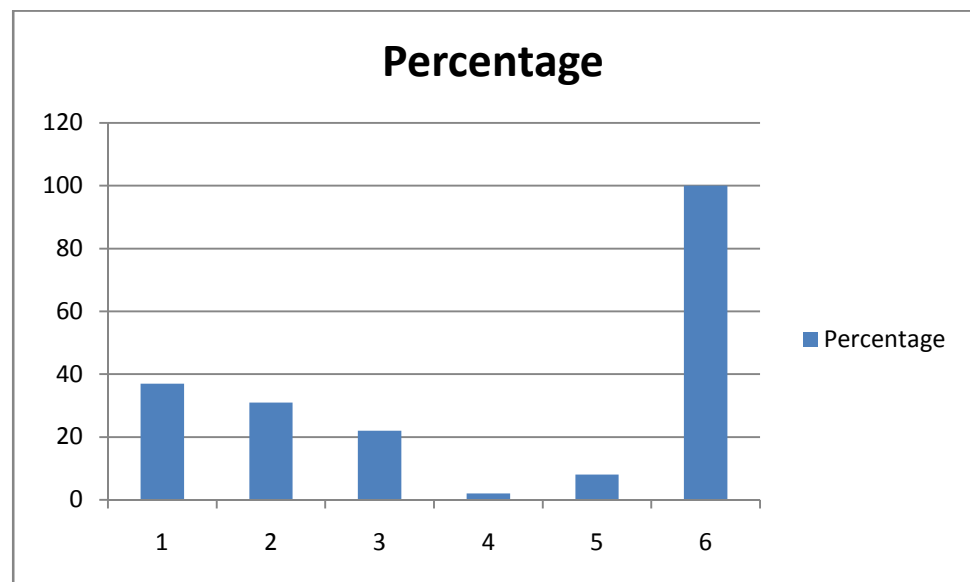


The above table reveals that nearly 40% of respondents (respondents) are illiterate due to poverty and other reasons and 24% of respondents are uneducated due to lack proper support and 14% opined that there was no proper motivated for join schools, this indicates that , people of mining are one very poor, have their literary rate was very low.

Table 2: Do you feel that you people are deprived of primary education due to child labour in mining area

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	55	37
2	Agree	45	31
3	Disagree	33	22
4	Strongly disagree	03	02
5	Silent	14	08
Total		150	100

Source: primary data collected from filed Survey.

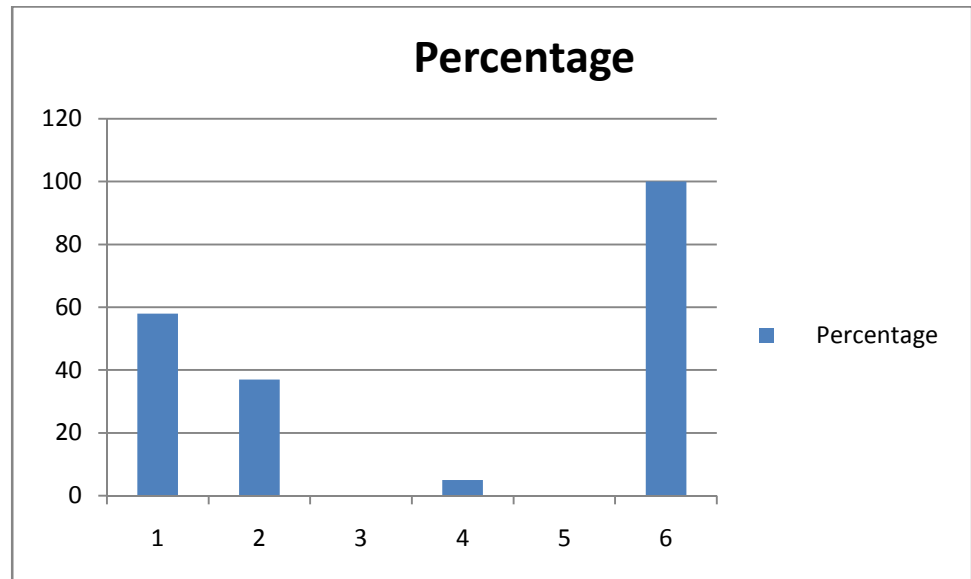


The above table shows that nearly 68% of respondents expressed that their educated was described due to mining activities, poverty and lack of support and encouraged, therefore they inclined to work for mining to earn their food. Only 24% to 30% of respondents did not agree for this.

Table 3: Do you think that child labour is there in mining area.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	54	35
2	Agree	60	39
3	Disagree	30	19
4	Strongly disagree	04	03
5	Silent	02	04
Total		150	100

Source: primary data collected from filed Survey.

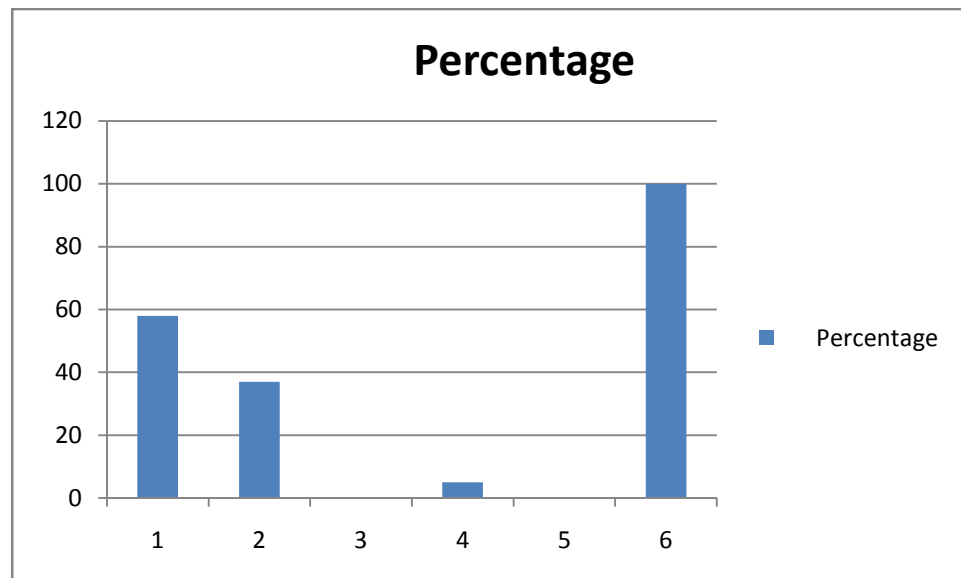


The above table reveals that 74% of respondents opined that, children below the age of eighteen years are working in mining in venous roles of course the mining agencies may not encourage of course the mining agencies may not encourage the child labour, but children themselves decides to work for mining due to ignorance of education

Table 4: Do you feel that because of child labour in mining the children are deprived of education?

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	72	48
2	Agree	48	32
3	Disagree	24	17
4	Strongly disagree	01	01
5	Silent	05	02
Total		150	100

Source: primary data collected from filed Survey.

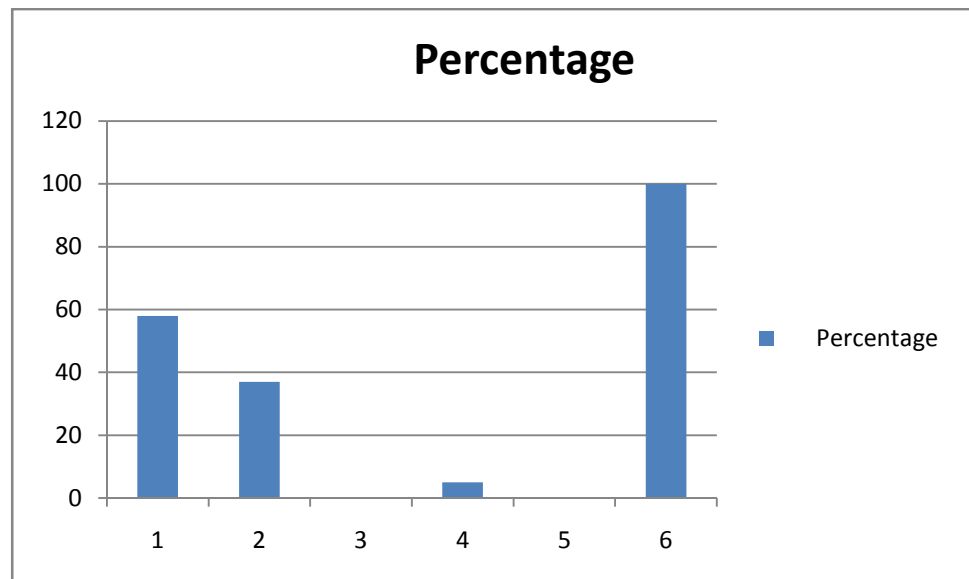


It is clear from the above table that, more them 48% of respondents opined that children of area are not able to get basic educated because of child labour system in mining field it is learnt for the serve that the tendency of working in mining instead of going to school.

Table 5: Do you agree that mining activity entertains child labour

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	51	34
2	Agree	60	40
3	Disagree	19	13
4	Strongly disagree	06	04
5	Silent	14	09
Total		150	100

Source: primary data collected from filed Survey

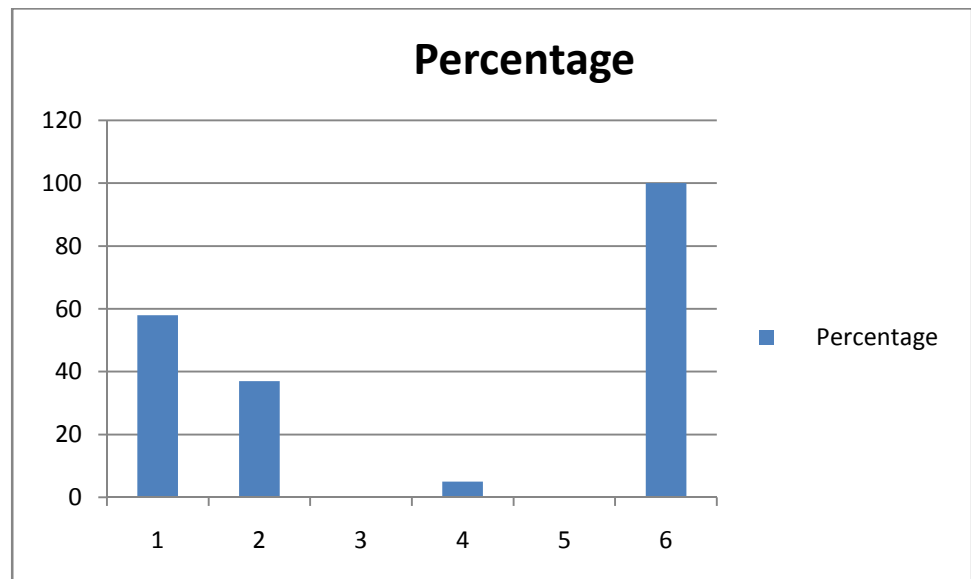


The above table depicts that nearly 74% of respondents agreed that the mining encourages child labour and 17% of respondent that the mining is not encourage child labour and 9% of respondent remaining silent in the regard.

Table 6: Do you feel that the remuneration obtained from mining is reasonable

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	15	10
2	Agree	42	28
3	Disagree	66	44
4	Strongly disagree	17	11
5	Silent	10	07
Total		150	100

Source: primary data collected from filed Survey.

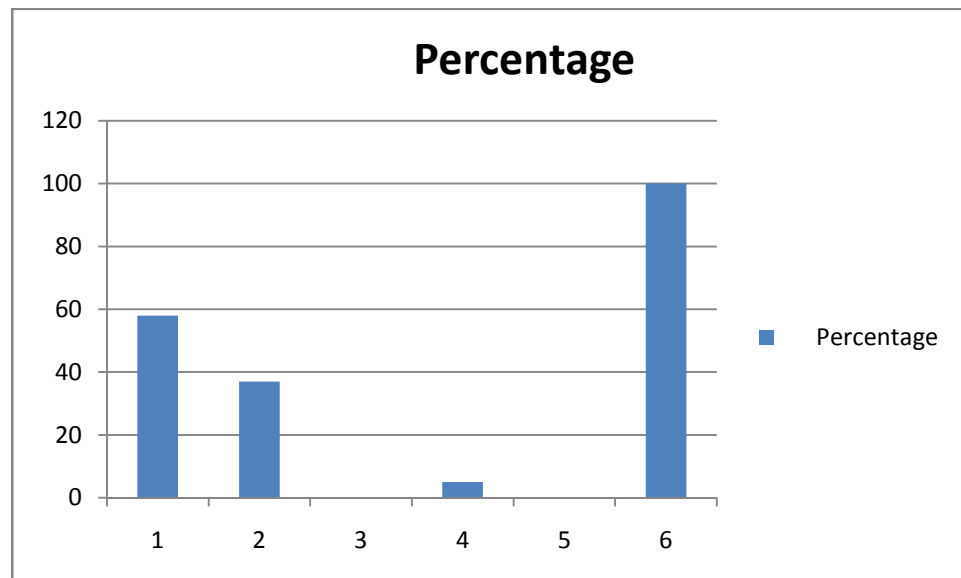


The table shows that 55% of respondent opened that the – for their work in mining is not fair and respondent, 38% of respondent said that – earned to their work and only 7% of respondent did not give any opinion

Table 7: Do you think that the people of this area suffering from chronic deceases

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	15	10
2	Agree	68	49
3	Disagree	54	36
4	Strongly disagree	07	05
5	Silent	06	00
Total		150	100

Source: primary data collected from filed Survey.

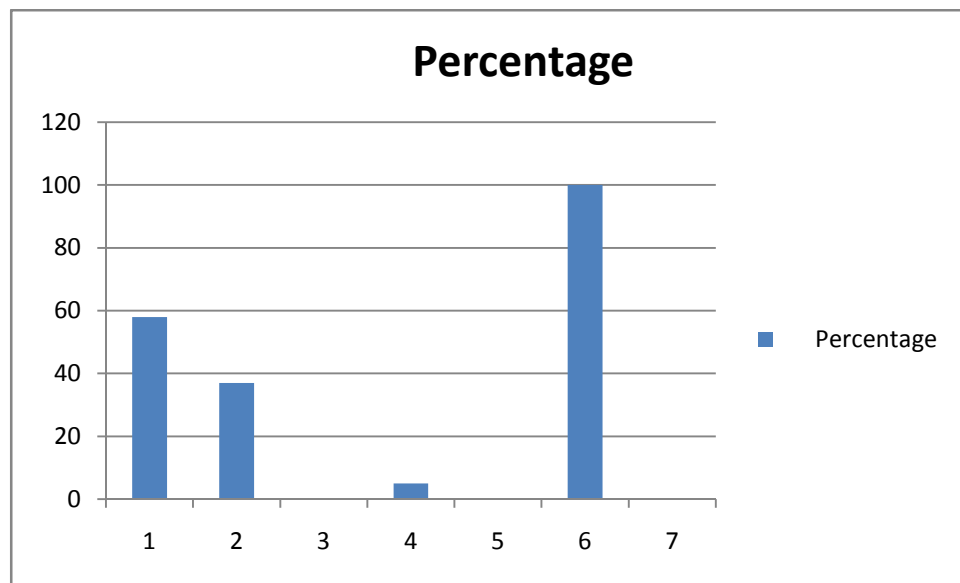


From the above table it is clear that nearly 59% of respondent opined that area are suffering form number of deceases dun to works environment problems 41% of respondent did not agreed for their statement

Table 8: Are you suffering from any chronic decease

S.No	Opinion	No of respondents	Percentage
1	cough	18	12
2	Astama	22	15
3	Dust allergy	86	55
4	Breathing problem	10	08
5	Cancer	03	02
6	other	11	08
total		150	100

Source: primary data collected from filed Survey

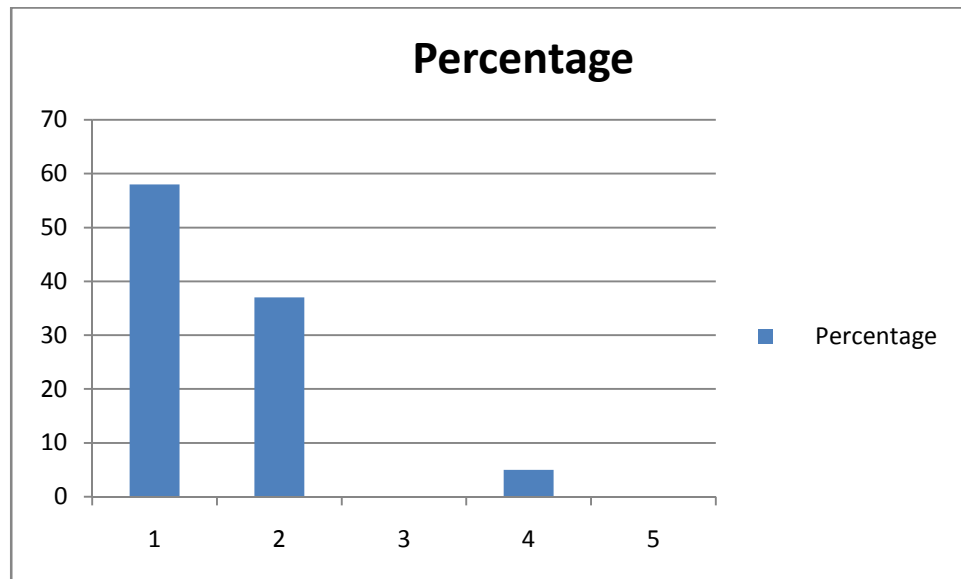


The above table shows that 12% of respondent are suffering from cough 15% are suffering from brainless 50% of respondent are suffering from breathing problem etc

Table 9: Causes for ill-health.

S.No	Opinion	No of respondents	Percentage
1	Severe dust	92	65
2	Water pollution	15	10
3	Environment pollution	32	21
4	Other	11	04
Total		150	100

Source: primary data collected from filed Survey

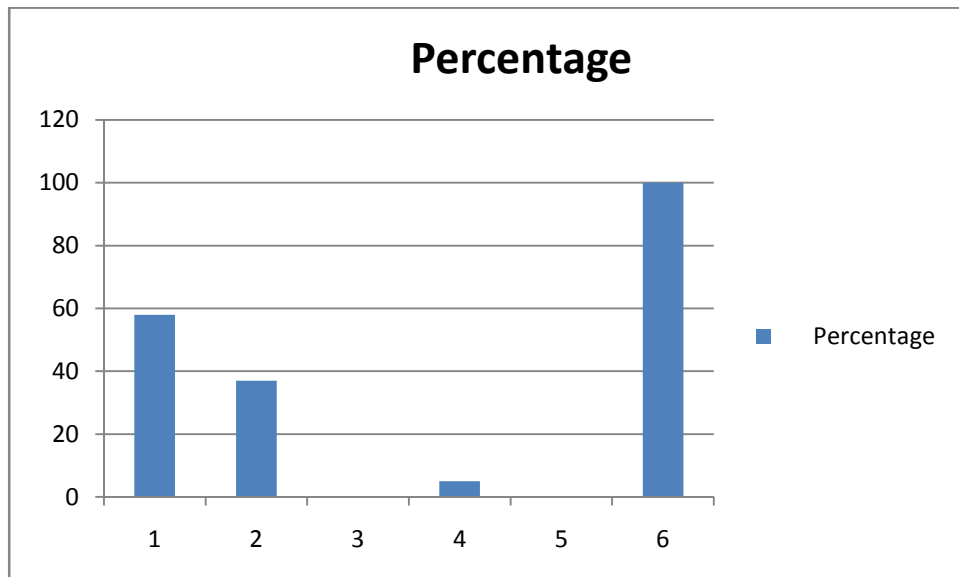


The above table reveals that nearly 65% of respondent opined that people of their area are suffering from dangerous deceases due to sever dust from mining activities 10% opined that ill health in due to contaminated water,21% of felt that environment pollution is the main cause of ill health, environment pollution due to negligence of mining .

Table 10 : Do you feel that adequate hospital facility is present near the mining area.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	04	03
2	Agree	25	17
3	Disagree	76	51
4	Strongly disagree	38	25
5	Silent	07	04
Total		150	100

Source: primary data collected from filed Survey

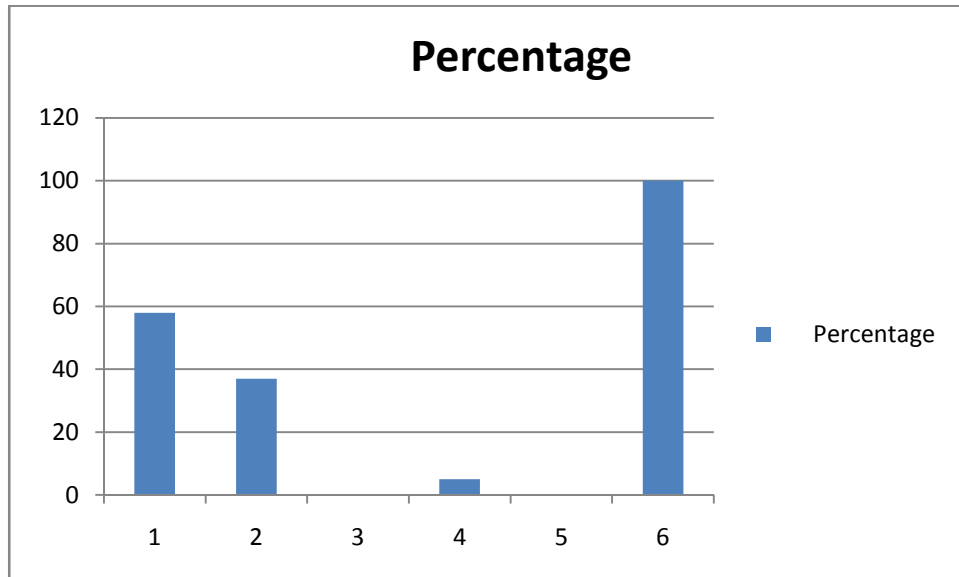


The above table shows that only 20% of responded agrees that the required medical facility assistance is available to the people, but 76% of responded opined that the available medical facility in not adequate and sometimes it is to wose. 15% of responded were kept silence for the stale vent.

Table :11 Do you feel that the doctors are available in the hospitals during the office hours.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	09	06
2	Agree	22	22
3	Disagree	75	75
4	Strongly disagree	21	21
5	Silent	23	23
Total		150	100

Source: primary data collected from filed Survey

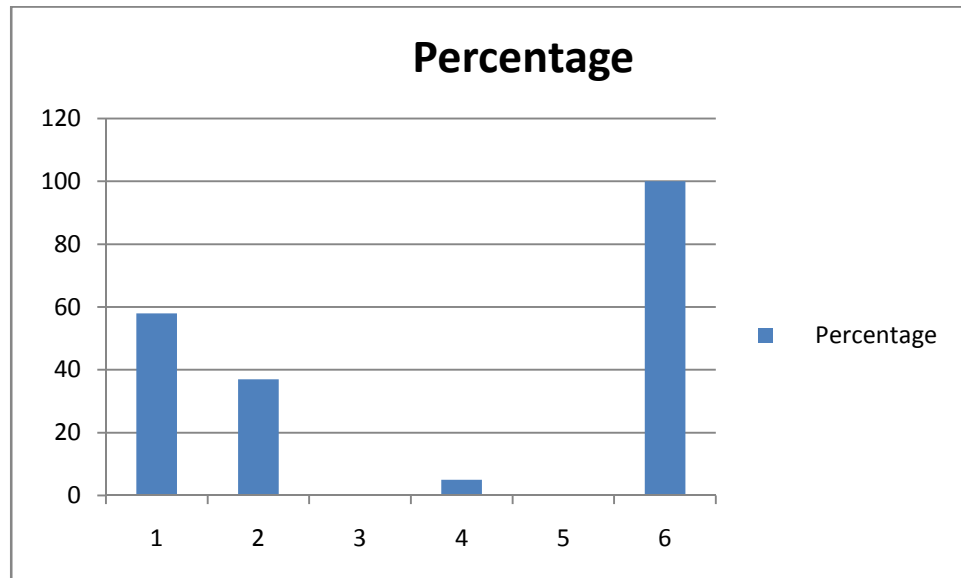


The above table reveals that 21% of responded opined that doctors are available to the villagers during of working house, But 64% of responded opined that doctors are not at all available in the hospitals during working hours and only 15% of responded remains silent.

Table: 12 Do you think that lack of adequate hospital and medicines leads to poor health of the people.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	39	26
2	Agree	76	52
3	Disagree	15	10
4	Strongly disagree	08	02
5	Silent	12	10
Total		150	100

Source: primary data collected from filed Survey

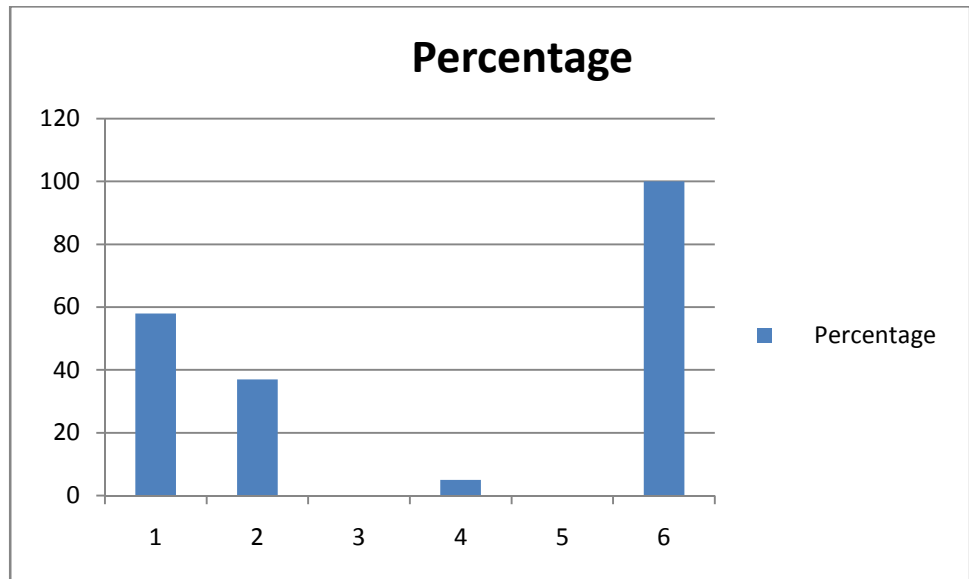


The above table reveals that 78% of responded opined that the health confutation of people starling around mining belt because too worse because of non-avanaslity of doctors and lack of medicines .only 12% of people did not agree for their and 10% of responded failed to give any opinion.

Table: 13 Give your opinion about Distribution of medicines by the govt hospitals.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	11	07
2	Agree	34	23
3	Disagree	35	23
4	Strongly disagree	59	39
5	Silent	11	08
Total		150	100

Source: primary data collected from filed Survey

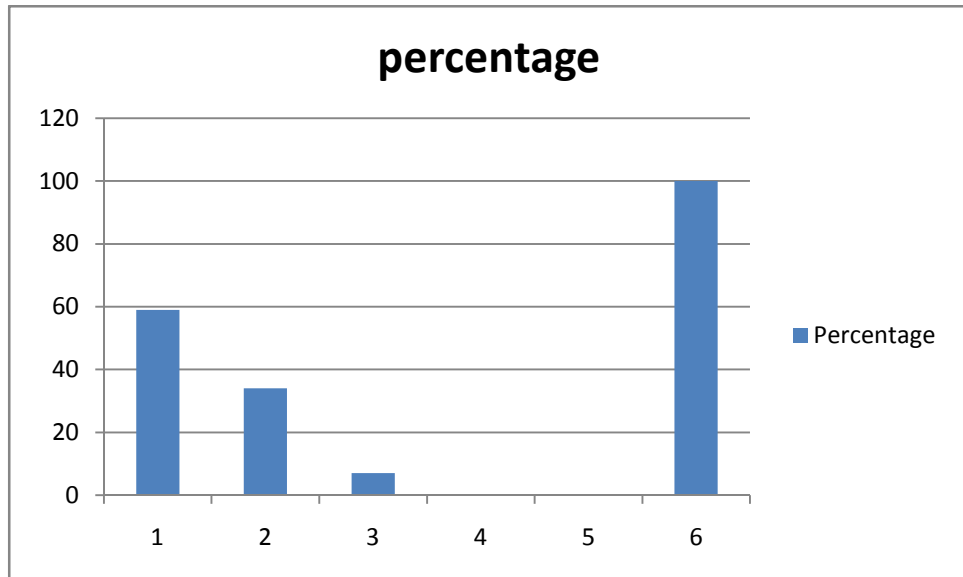


The above table -that only 7% of responded are stratified with the medicines suppliers by the government hospitals (46+39%)85%of responded expressed very bad opinion above the supply of medical by the government hospitals of this area and 8%of people did not respond to this statements .

Table: 14 Do you think that the environment of pollution is due to mining and its transportation.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	89	59
2	Agree	51	34
3	Disagree	10	07
4	Strongly disagree	00	00
5	Silent	00	00
Total		150	100

Source: primary data collected from filed Survey.

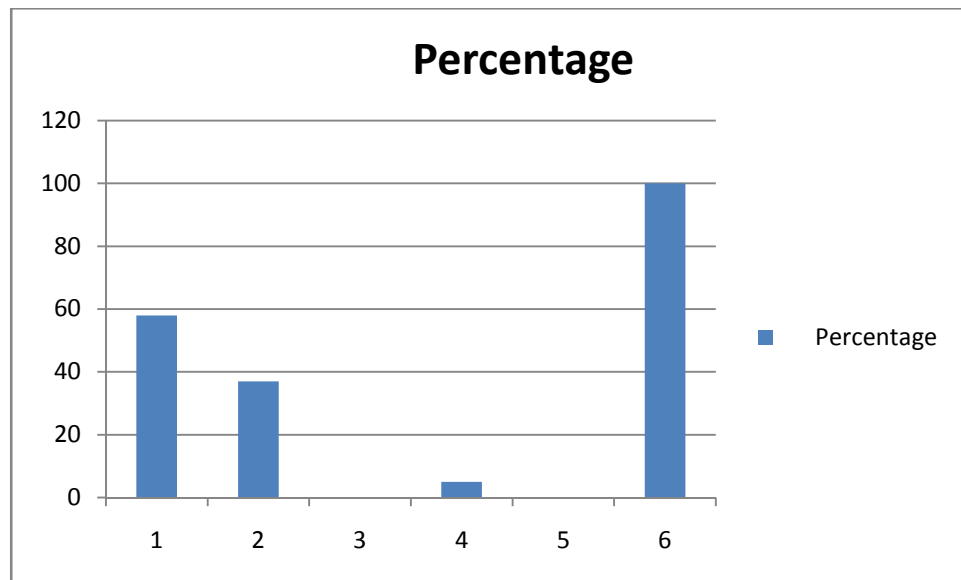


The above table shows that 93% of responded opined that the environment around mining area has been completely worst due to unethical mining activities , only 7% of responded disagree for this statements.

Table: 15 Roads are seriously damaged and they create prblems to the civilions due to mining transportation.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	88	58
2	Agree	53	37
3	Disagree	00	00
4	Strongly disagree	07	05
5	Silent	02	00
Total		150	100

Source: primary data collected from filed Survey.

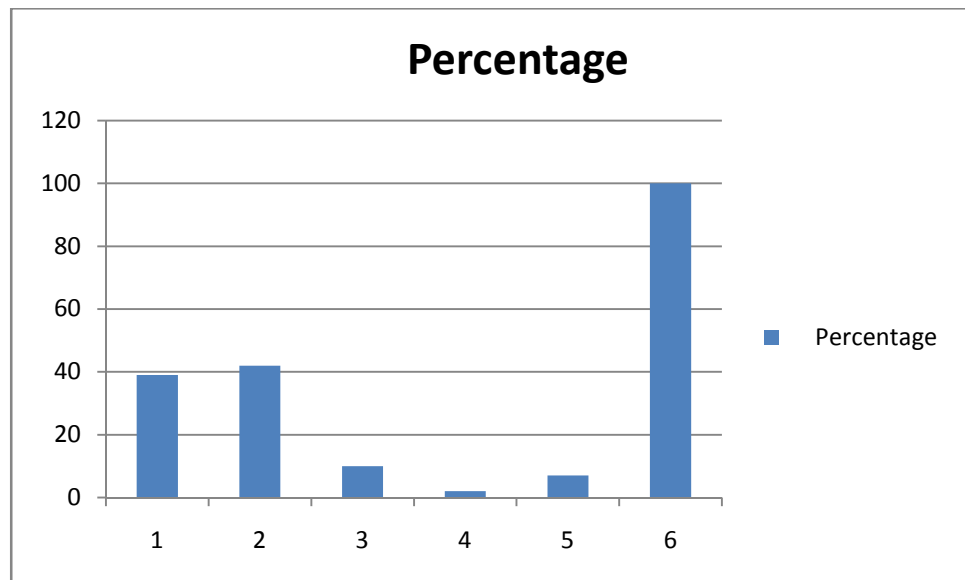


The above table reveals that 95% of responded agrees d that roads are severely danger due to heavy loaded transportations of mining no by roans for the transportations of mining to convenient the highways .only 5% of responded did not give any opinion.

16 Do you feel that afforestation is not effectively undertaken by the mining authorities

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	30	17
2	Agree	69	49
3	Disagree	36	24
4	Strongly disagree	09	06
5	Silent	06	04
Total		150	100

Source: primary data collected from filed Survey.



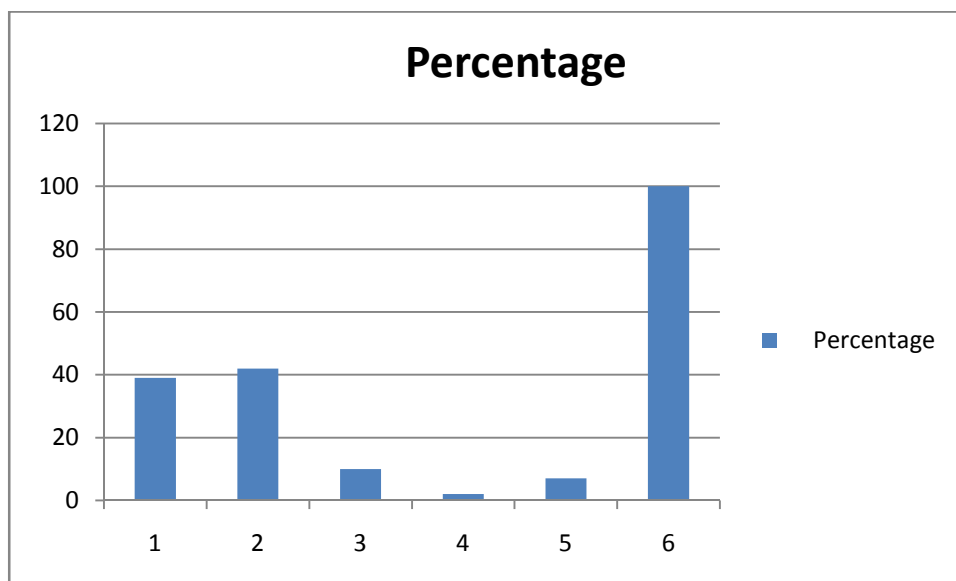
The above table shows that 66% of responded opined that mining authority did not undertake any proper reforestation programmed for the replacement plants destroyed due to mining activities 30% of responded opinion that mining very little action reforest and 4% did not express anything.

17 Whether check dams are adequately constructed for avoiding environmental pollution.

S.No	Opinion	No of	Percentage
------	---------	-------	------------

		respondents	
1	Strongly agree	18	12
2	Agree	51	34
3	Disagree	59	39
4	Strongly disagree	15	10
5	Silent	07	05
Total		150	100

Source: primary data collected from filed Survey.



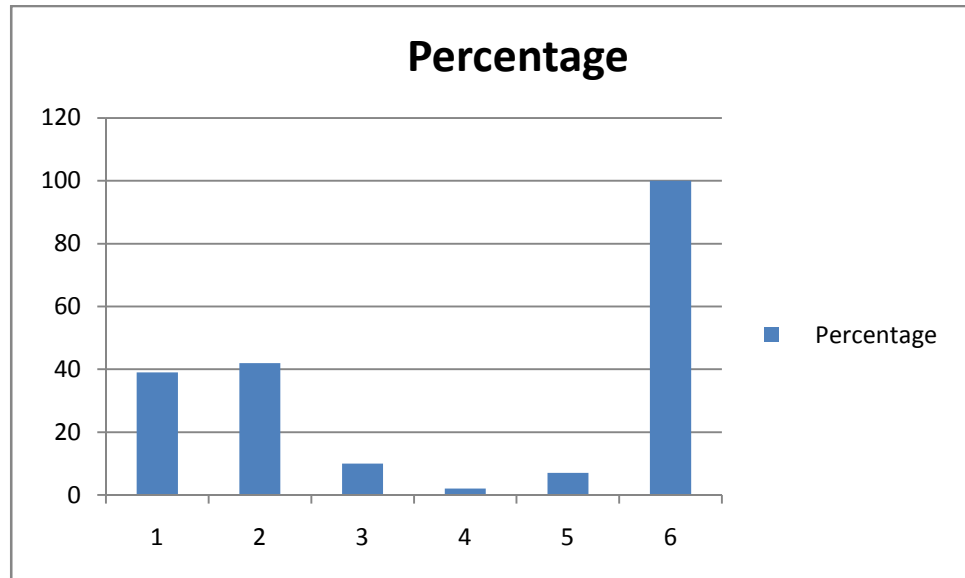
The above table should that nearly 36% of responded agrees that cheek dams being constricted for avoided environment pollution, but 49%

18 Living condition of human being and animals is worse in mining area.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	82	55
2	Agree	55	35

3	Disagree	12	08
4	Strongly disagree	03	02
5	Silent	00	00
Total		150	100

Source: primary data collected from file Survey.

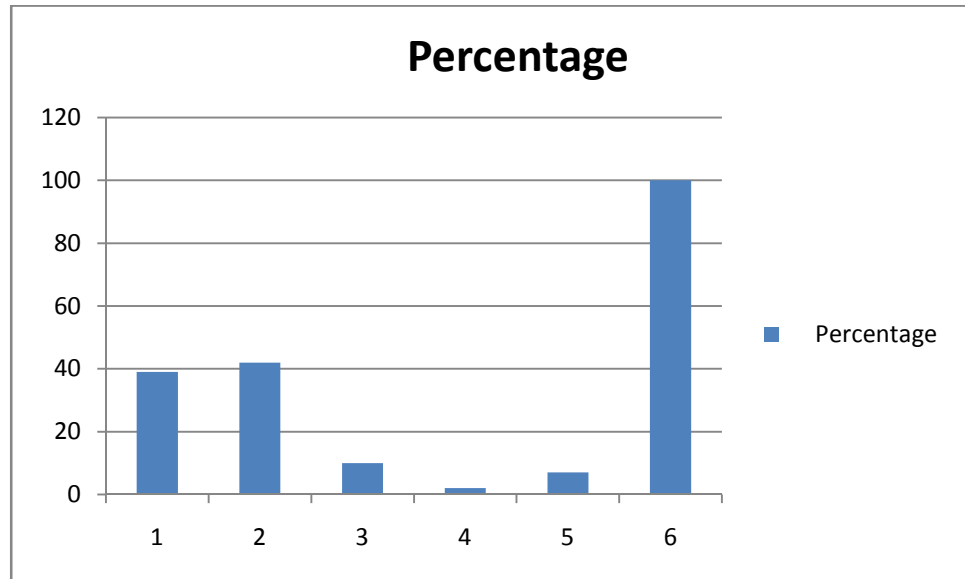


The above data recalls that nearly 90% of responded opined that the living condition of men and animals of mining area because very worse due to unethical mining activities only 8% of responded did not agree for this statement and 2% of responded failed to express any opinion.

19 Is Agricultural activity is adversely affected by mining activity.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	97	66
2	Agree	39	26

3	Disagree	07	07
4	Strongly disagree	00	00
5	Silent	07	07
Total		150	100

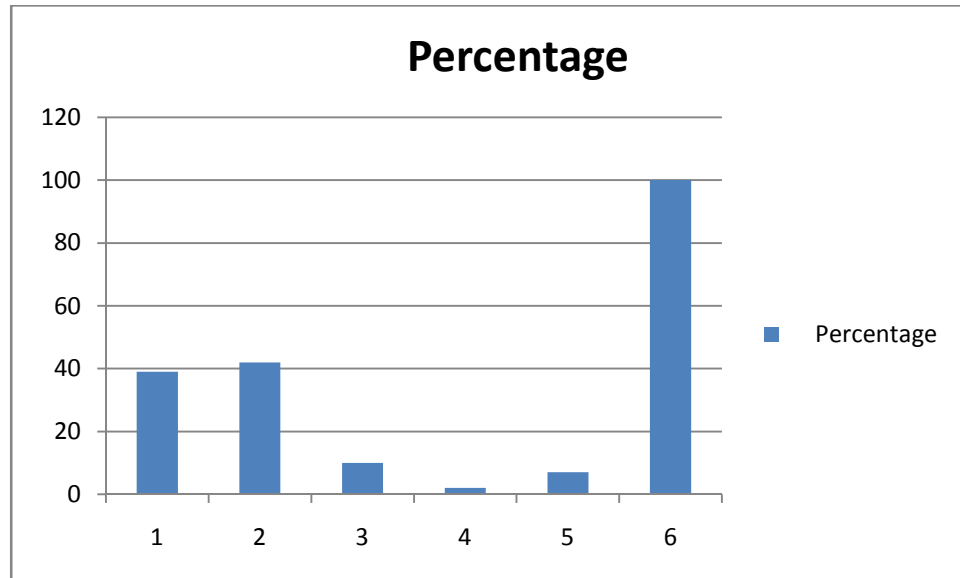


The above table explained that nearly 92% of responded agreed that the agriculture system has been collapsed and must of lands becomes barren due to aim and water pollution 99% of villages are depending on agriculture production for their living hood .only 5% of responded did not agreed for this statement.

20 Agricultural production level decreases due to deposition of metal particals on the crops.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	88	58
2	Agree	39	26
3	Disagree	10	07
4	Strongly disagree	06	04

5	Silent	07	05
Total		150	100



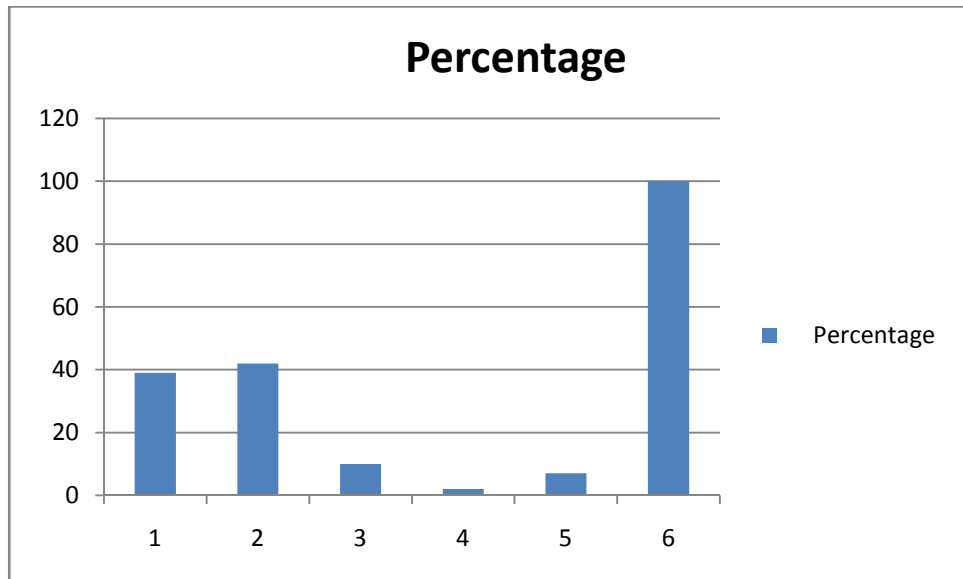
The above data reveals that 69% of responded agreed that they have so many told problems arising from mining activities ,which cannot be expressed to other , they thought that, such problems are unsolved forever .only 19% of responded did not agrees for this statement 12% of responded kept silence regarded that .

21 Would you like to leave this place for betterment of future generation.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	33	22
2	Agree	53	35
3	Disagree	39	26

4	Strongly disagree	12	08
5	Silent	13	09
Total		150	100

Source: primary data collected from file Survey.



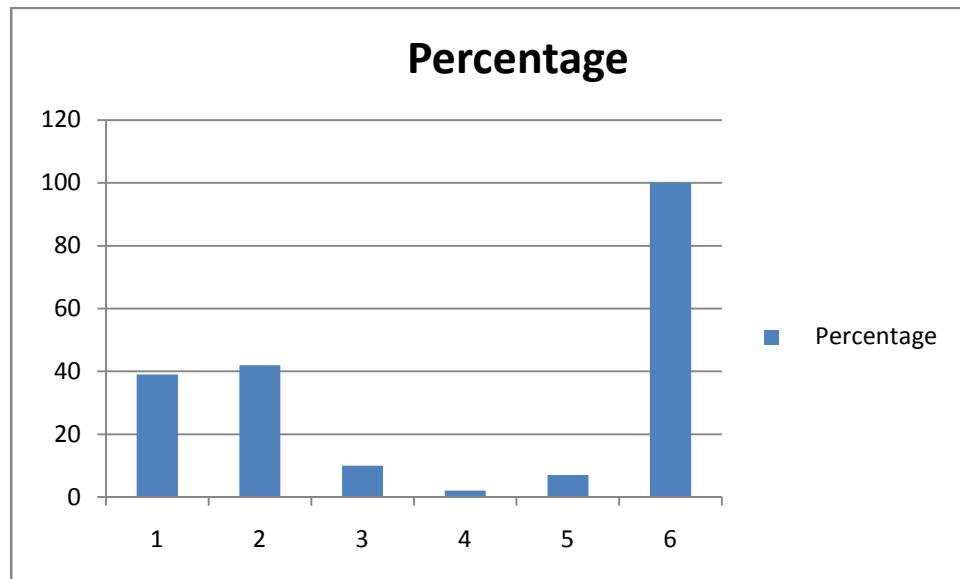
The above data shows that 57% of responded are ready to leave their places because of adverse offset of mining on fona.34% of responded opined that due to insecurity in life, they are not ready to leave their places even though there was adverse important of mining on people, plants and animals 9% of responded failed to give any opinion on this.

22 Do you have any untold or hidden problems arising from mining activities.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	27	18
2	Agree	76	51
3	Disagree	22	15
4	Strongly disagree	06	04
5	Silent	19	12

Total		150	100
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Source: primary data collected from file Survey.



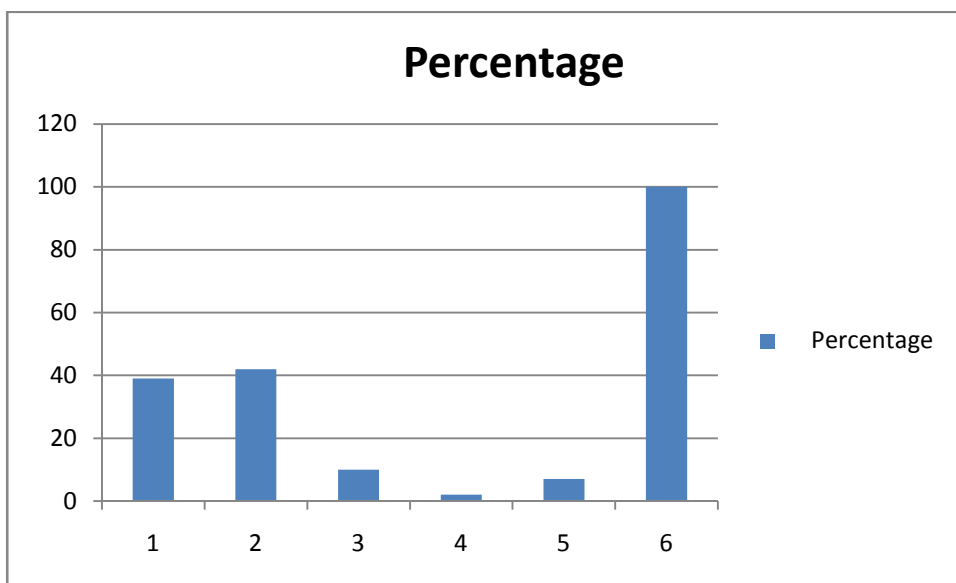
The above table shows that 84% of responded expressed that the agriculture production(crops) was completely destroyed due to deposition of mining partials on the crops, hence they are unable to produce even average yield. Only 11% of responded did not agree this state of affairs and 5% of responded did not give any opinion.

23 Do you expect any favorable situation from mining activities in the years to come.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	30	19
2	Agree	48	32
3	Disagree	57	38
4	Strongly disagree	15	11
5	Silent	00	00

Total		150	100
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Source: primary data collected from file Survey.

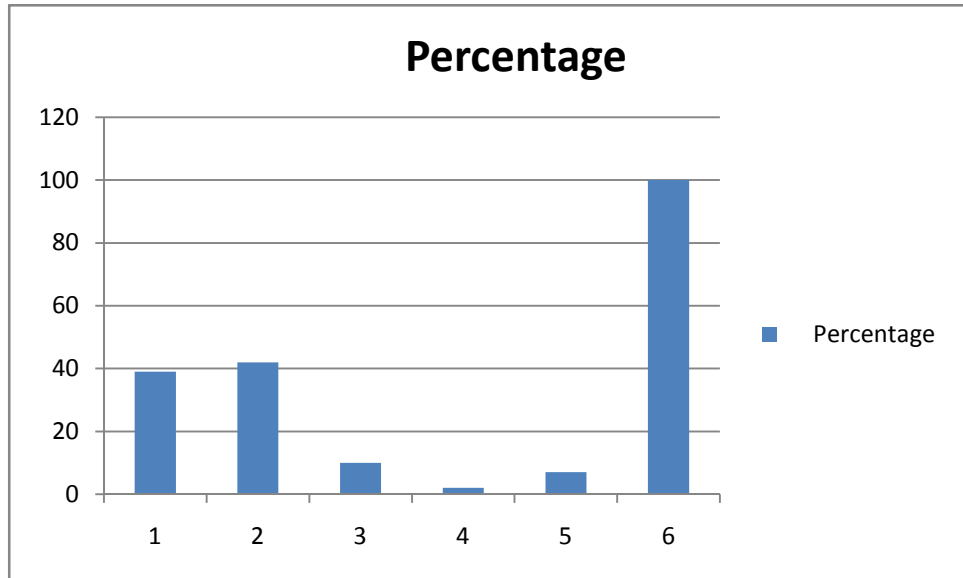


The above table reveals that 52% of responded agreed that they have positive hopes of improvement of their living coveting in future. 48% of responded expressed that the lost all hopes of improvement of their living condition spoiled due to mining activities.

24 Do you expect the government to take necessary actions to avoid the adverse impact of mining on people.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	39	26
2	Agree	37	25
3	Disagree	59	39
4	Strongly disagree	10	07
5	Silent	05	03
Total		150	100

Source: primary data collected from file Survey.

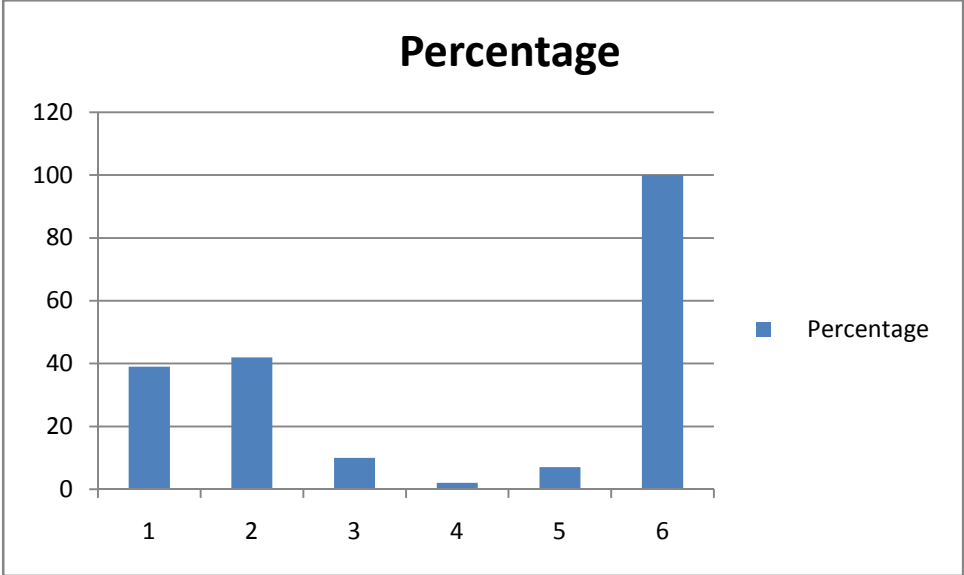


The above table statistics reveals that 51% of responded opined that, still they have positive hopes that the government may take necessary action to control the illegal and unethical mining activities in order to save the people from its adverse impact 45% of responded did not agree for this statement they expressed that there was no such hopes form any government influence.

25. Do you think that the standard of living of people declines ,if mining activity continuous in the same way.

S.No	Opinion	No of respondents	Percentage
1	Strongly agree	59	39
2	Agree	62	42
3	Disagree	15	10
4	Strongly disagree	03	02
5	Silent	11	07
Total		150	100

Source: primary data collected from file Survey.



The above data shows that 81% of responded opined that the life style and slandered of living of this people has become so worse due to uncontrolled mining activities .12% of responded did not agree for this statement and 7% of responded failed to give any opinion about this.

Major Findings

- It is found that Mining activity creates so many problems to the people living around mining area.
- The literacy rate is very poor due to poverty, lack of encouragement and child labor system in mining area. Nearly 74% of the respondent agreed to this statement.
- The tendency of children below the age of 18 years are working for mining is common from the inception of mining activity to till the date. 74% of respondents are expressed their positive opinion towards this statement.
- The remuneration and the pay scale to the laborers are not fair. 55% of respondents supported to this statement.
- The people in mining area are suffering from serious diseases like Asthma, dust allergy, breathing problem and cancer. 59% of respondents are expressed the same opinion.
- Water and air pollution are the major reasons for the ill health of laborers. 75% of respondents gave the same opinion.
- It is found that lack of adequate and well established hospitals in the villages and around the mining area. 76% of respondents expressed their opinion.

- Doctors are not available during the working hours and required medicines are not kept in the hospitals. 64% of respondents are supported this statement.
- The environment around the mining area has become polluted due to mining activity. 93% of respondents gave this opinion.
- The roads which are used for mineral transportation are passes through the villages and hence roads are seriously damaged due to heavy transportation of mines. Hence it creates so much of dust and noise. 95% of respondents are agreed to this statement.
- Deforestation due to mining is another reason for environmental pollution. 66% of respondents gave this opinion.
- There are no proper check dams to prevent the soil erosion. 49% of the respondents supported this statement and 5% did not give any opinion.
- Agricultural productions around the mining area are seriously damaged and living condition of people also adversely effected due to mining operation. 90% of respondents expressed this opinion.
- Owing to deterioration of environmental condition, it is found that people are thinking to leave their places for the prosperity of their younger generation. 67% of respondents are expressed this opinion.

- The people around the mining area have lost confidence about the development of affected villages in the years to come. 46% of respondents supported this statement and 51% of respondents did not agree for this statement and 3% did not give any opinion.

Suggestions and Conclusions

- The government should take necessary action in order to improve the literacy rate by encouraging the parents to send their children to the schools.
- The government should pass stringent orders regarding the age limit of employees for appointment purpose. Serious action should be taken against those companies who violate such actions.
- Mining companies should follow the principal of fair remuneration for the fair work. Reasonable wage rate certainly helps them to improve their standard of living.
- Mining company should provide well established hospitals, a good number of doctors and required amount of medicines etc., to make the villagers physically and mentally healthy.

Questionnaire

The following questions were framed in the form of questionnaire and distributed to the respondents, i.e., the people living in and around the mining area to give their honest opinion regarding the impact of mining on people living around mining area. Based on the information given by the respondents the researcher has prepared the project report as sanctioned from the UGC authority.

- **Reasons for low literacy rate**
- **Do you feel that you people are deprived of primary education due to child labour in mining area**
- **Do you think that child labour is there in mining area**
- **Do you feel that because of child labour in mining the children are deprived of education?**
- **Do you agree that mining activity entertains child labour**
- **Do you feel that the remuneration obtained from mining is reasonable**
- **Do you think that the people of this area suffering from chronic deceases**
- **Are you suffering from any chronic decease**
- **Causes for ill-health.**
- **Do you feel that adequate hospital facility is present near the mining area**
- **Do you feel that the doctors are available in the hospitals during the office hours**
- **Do you think that lack of adequate hospital and medicines leads to poor health of the people**

- **Give your opinion about Distribution of medicines by the govt hospitals**
- **Do you think that the environment of pollution is due to mining and its transportation**
- **Roads are seriously damaged and they create problems to the civilians due to mining transportation**
- **Do you feel that afforestation is not effectively undertaken by the mining authorities**
- **Whether check dams are adequately constructed for avoiding environmental pollution**
- **Living condition of human being and animals is worse in mining area**
- **Is Agricultural activity is adversely affected by mining activity**
- **Agricultural production level decreases due to deposition of metal particles on the crops**
- **Would you like to leave this place for betterment of future generation**
- **Do you have any untold or hidden problems arising from mining activities**
- **Do you expect any favorable situation from mining activities in the years to come**
- **Do you expect the government to take necessary actions to avoid the adverse impact of mining on people**
- **Do you think that the standard of living of people declines ,if mining activity continuous in the same way**