

Survey on Water quality of wells in the post-flood days

Coordinated by Department of History on February-March 2019

The college has participated in the survey competition organised by the Newspaper firm, Mathrubhumi, in association with Geoblue group to analyse the water quality of wells in the nearby area of the college. The Mathrubhumi team provided an outline for the survey. They asked the students to collect the details of the quality of water in the wells of the region and note the problems they face with regard to the usage of the water through interviews with the people. We have participated in the contest as part of our outreach activity in the locality severely affected by the flood. Ten students of the college, along with Mr.Libin Francis, Assistant Professor, Department of History, have designed a survey form which collected the information regarding the quality of water in their wells. Responses from around 200 families were taken by students visiting their place of residence. The wells of the houses were observed and photographed.

The best survey report presentation was given the prize. The report was also to be handed over to the government.

List of Students who conducted the survey

Sl. No	Name of student	Department
1	Steffy Jose	I Msc Mathematics
2	Rosemol M.D	I Msc Mathematics
3	Femy K.J	I Msc Mathematics
4	Rinol Rose R	I BA English
5	Meegha Jimmy	I BA History
6	Aleena T.S	I BA English
7	Gisty Johnson	I BA English
8	Krishnaja P.U	I BA English
9	Nayana M Vijayan	I BA History
10	Aneesha K.A	I BA History

IMAGE 1:RECEIVING THE AWARD FROM MATHRUBHUMI



IMAGE 2: RECEIVING CASH AWARD WORTH Rs 10,000

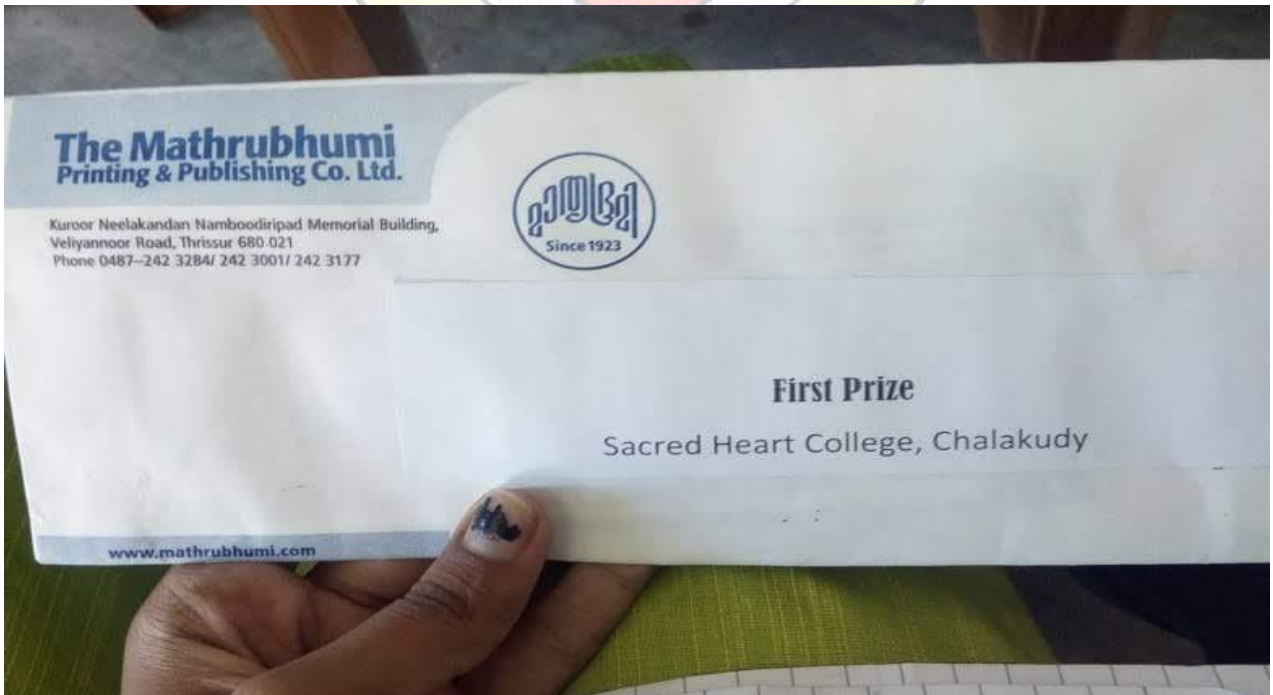




IMAGE 3:A MEET WITH COLLECTOR T.V.ANUPAMA



IMAGE 4:SUBMISSION OF A COPY OF REPORT TO THE COLLECTOR

NEWSPAPER REPORT :

പ്രളയാനന്തര കിണറുകളുടെ പഠനം

ചാലക്കുടി സേക്രഡ് ഹാർട്ട് ഒന്നാമത്



തൃശ്ശൂർ • പ്രളയാനന്തരം നമ്മുടെ കിണറുകൾക്ക് എന്തു സംഭവിച്ചു എന്നറിയാൻ ജില്ലയിൽ നടത്തിയ പഠനത്തിൽ ചാലക്കുടി സേക്രഡ് ഹാർട്ടിന് ഒന്നാം സ്ഥാനം. തൃശ്ശൂർ സെൻ്റ് മേരീസ് കോളേജിലെ എം.എസ്.സി. ബയോടെക്നോളജി വിഭാഗത്തിനാണ് രണ്ടാം സ്ഥാനം. കുറുപ്പുറ്റി എസ്.സി.എം. എസ്. സ്കൂൾ ഓഫ് എൻജിനീയറിങ് ആൻഡ് ടെക്നോളജിയാണ് മൂന്നാംസ്ഥാനം കരസ്ഥമാക്കിയത്.

മാതൃഭൂമിയും തൃശ്ശൂർ ആസ്ഥാനമായി പ്രവർത്തിക്കുന്ന ജിയോളജിക് ഇന്നോവേഷൻസും സംയുക്തമായി സംഘടിപ്പിച്ചതാണ് പഠനം. കുടിവെള്ളപരിശോധന നടത്തുകയും വാട്ടർ ഫിൽറ്ററുകളും മലിനജല സംസ്കരണപ്പാൻറുകളും തയ്യാറാക്കി നൽകുകയും മാണ് ജിയോളജിക് ഇന്നോവേഷൻസിന്റെ പ്രവർത്തനമേഖല. ജില്ലയിലെ 10 കോളേജുകളിൽ നിന്നുള്ള 11 ടീമുകളാണ് പഠനത്തിൽ പങ്കാളികളായത്. ഒന്നാം സ്ഥാനം കരസ്ഥമാക്കിയ ടീമിന് 10,000 രൂപയും രണ്ട്, മൂന്ന് സ്ഥാനങ്ങൾ നേടിയവർക്ക് 7,500, 5,000 രൂപയുമായിരുന്നു സമ്മാനം. പങ്കെടുത്ത മറ്റു ടീമുകൾക്ക് മുഖ്യമായി രൂപവീതം പ്രോത്സാഹനസമ്മാനവും നൽകി.

ലോക ജലദിനമായ വെള്ളിയായു പാറമേക്കാവ് അഗ്രശാലയിൽ നടന്ന ചടങ്ങിൽ വിജയികൾക്ക് നടന്ന ചടങ്ങിൽ വിജയികൾക്ക് കാഷ് അവാർഡുകൾ സമ്മാനിച്ചു. മേയർ അജിതാ വിജയൻ ചടങ്ങ് ഉദ്ഘാടനം ചെയ്തു. ചലച്ചിത്രം നടി മായാ മേനോൻ സമ്മാനാനം നിർവഹിച്ചു.

മാതൃഭൂമി തൃശ്ശൂർ സീനിയർ മാനേജർ (മിഡിയ സൊല്യൂഷൻസ്) വിനോദ് പി. നാരായൺ അധ്യക്ഷനായി. സെൻ്റ് തോമസ് കോളേജ് പ്രിൻസിപ്പൽ ഇഗ്നേഷ്യസ് ആൻറണി, ജിയോളജിക് ഇന്നോവേഷൻസ് എം.ഡി.യും സി.ഇ.ഒ.യുമായ രഞ്ജിത്ത് പി. ദിനേശ്, കിലയിലെ ഫാക്കൽട്ടിയായ പി.വി. രാമകൃഷ്ണൻ, മാതൃഭൂമി ന്യൂസ് എഡിറ്റർ എം.കെ. കൃഷ്ണകുമാർ, സർക്കുലേഷൻ മാനേജർ പി.എം. ധനേഷ് എന്നിവർ പ്രസംഗിച്ചു.

സമ്മാനാനുമ്പടങ്ങിനുശേഷം ജില്ലയിലെ കിണറുകളെക്കുറിച്ചുള്ള പഠനങ്ങളുടെ സംക്ഷിപ്തരൂപം രഞ്ജിത്ത് പി. ദിനേശ് അവതരിപ്പിച്ചു. ഒന്നാം സ്ഥാനം നേടിയ സേക്രഡ് ഹാർട്ട് കോളേജിന്റെ പഠനറിപ്പോർട്ട് അവതരണവുമുടനന്തം, മാതൃഭൂമി നടത്തിയ പഠനത്തിന്റെ റിപ്പോർട്ട് സർക്കുലിന് സമർപ്പിക്കുന്നതിന്റെ ഭാഗമായി കളക്ടർ ടി.വി. അനുപമ കൈമാറി. നവകേരള നിർമ്മാണത്തിൽ കിണർവെള്ളത്തിന്റെ ശുദ്ധി ഉറപ്പുവരുത്തുക കൂടുതൽ ശുക്ലപ്പുത്തനമെന്ന് പരിപാടിയുടെ ഭാഗമായി നടന്ന സെമിനാറിന് ആവശ്യമായർന്നു.

മാതൃഭൂമി സംഘടിപ്പിച്ച 'പ്രളയാനന്തരം നമ്മുടെ കിണറുകൾ' എന്ന സർവ്വേയിൽ പങ്കെടുത്ത് ആദ്യ മൂന്ന് സ്ഥാനങ്ങൾ നേടിയ കോളേജുകളിലെ വിദ്യാർഥികൾ ടോഫികളുമായി നടി മായാ മേനോനും വിധികർത്താക്കൾക്കുമൊപ്പം

വാരിയർസമാജം VACATION COMPUTER COURSES

- Newspaper Report of the event- dated 23/03/2019 Translation-

Title - SACRED HEART COLLEGE BAGS FIRST

Sacred Heart College Chalakkudy bagged first position in conducting a survey on the topic “WHAT HAPPENED TO OUR WELLS AFTER THE FLOOD”.The study was conducted with the help of Geological Innovation along with Mathrubhumi News.The cleanliness and purity of the drinking water analysation,waste water management and water filtration are the main sections by the Geological Innovation.Among the 10 colleges from the Thrissur District and from the 11 teams, Sacred Heart College secured first price with a cash money of Rs10,000.The report of the same was submitted to the then Collector T.V. Anupama as a part of submission to the Government of Kerala.The topic“The importance of clean drinking water and pure water from wells“was asked to be included as a part of New Kerala Innovation Project.

Certificates of three students issued by Mathrubhumi

മാതൃഭൂമി
അമാർത്ഥ പുരസ്കാരങ്ങൾ



GeoBlue
COMPLETE WATER SOLUTIONS

CERTIFICATE OF PARTICIPATION

This certificate is awarded to Master/Kumari *Aneesha K.A*
of *Sacred Heart College Chhalsady* for participation
in "*Pralayanantharam Kammude Kinarukal*" - Social Survey and
"*Jalamithram*" - Seminar held in connection with
World Water Day, on 22nd March 2019.

Vinod P Karayan
Senior Manager-Media Solutions, Mathrubhumi

Ranjith P Dinesh
MD & CEO, Geologic Innovations

മാതൃഭൂമി
യഥാർത്ഥ പത്രത്തിന്റെ ശക്തി



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"**Jalamithram**" - Seminar held in connection with
World Water Day, on 22nd March 2019.*

Vinod P Narayan
Senior Manager-Media Solutions, Mathrubhumi

Ranjith P Dinesh
MD & CEO, Geologic Innovations



FINDINGS OF THE SURVEY BY STUDENTS

Link - <https://prezi.com/p/yfgr517kah4c/?present=1>

PAGES :

The image shows two screenshots of a Prezi presentation. The top screenshot displays the main navigation menu with the following items:

- 1 Overview
- 2-7 Introduction
- 8-9 The Team
- 10-22 Key Results and Findings

The main slide in the top screenshot features the title "The well and water in the post-flood period-A Mathrubhumi-Geoblu survey presentation" and the institution name "SACRED HEART COLLEGE FOR WOMEN, CHALAKUDY". It also includes five circular navigation buttons: "Introduction", "The Team", "Results", "Conclusion", and "Survey Scenes".

The bottom screenshot shows the "Introduction" slide, which contains the following text:

Introduction

The flood which affected our state created huge chaos in and around our region. Loss of life and property, deprivation in the means of livelihood, destruction of the shelter were all that left behind by the flood.

Our region Chalakydy is one among the most flood affected area in kerala. Apart from the loss of life and property, water quality is severely affected. But it is doubtful that how much awareness exist with the regard to the quality of potable water. In this current situation the survey programme named "PRALAYANATHARAM KINARUKAL" is very relevant.

The slide also features three circular navigation buttons: "METHODOLOGY Interviews and Questionnaire", "AREAS COVERED", and "Introduction".

prezi.com/p/edit/yfgr517kah4c/

The water after flood

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Subtopic

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METHODOLOGY

Questionnaires Interviews Collective memory

Questionnaire

Interviews and collective memory

METHODOLOGY Interviews and...

Questionnaire

Interviews and recording of collective memories

Interviews and collective ...

Need ha

Questionnaire

A questionnaire was provided by Mathrubhumi- Geoblue venture to be filled by the affected persons. We have surveyed more than 500 houses with it and also noticed the wells and water sources.

Untitled form (Responses)

File Edit View Insert Format Data Tools Form Add-ons Help

Timestamp	Name of the Person	Panchayat	Sources of water ?	If the source is well	How old ?	Level of water and waste	Which kind of waste ?	Whisk
3/13/2019 14:40:37	Thomas molgpan	Chalakyady municipality	Well	Concrete	0-10 years	Over flowed	Mud and soil	No
3/13/2019 14:45:10	Vishwabaran	Kodassery	Well	Concrete	0-10 years	Over flowed	Mud and soil	No
3/13/2019 14:46:33	Sinoj kalen	Chalakyady	Well	Cement ring	0-10 years	Over flowed	Chemicals, Mud and soil	Yes
3/13/2019 14:57:00	Devsai parakkadan	Chalakyady	Well	Cement ring	Above 30	Over flowed	Mud and soil, Tar, oil etc.	Yes
3/13/2019 14:57:22	Mohan	Chalakyady	Well	Made up of red brick	20-30	Over flowed	Mud and soil, Tar, oil etc.	Yes
3/13/2019 14:59:14	Mathew V T	Chalakyady	Well	Made up of red brick	Above 30	To a little extent		No
3/13/2019 14:59:23	Laban Veru	Chalakyady municipality	Well	Made up of red brick	20-30	Over flowed	Mud and soil	Yes
3/13/2019 15:00:27	Varghese A P	Chalakyady	Well	Cement ring	20-30	Half	Mud and soil	No
3/13/2019 15:00:31	Jose	Chalakyady municipality	Well	Cement ring	0-10 years	Over flowed	Faunal remains, Chemicals	Yes
3/13/2019 15:02:01	K T Varghese	Chalakyady	Well	Made up of red brick	Above 30	Over flowed	Mud and soil	Yes
3/13/2019 15:03:32	Tony	Chalakyady municipality	Well	Cement ring	Above 30	Over flowed	Faunal remains, Mud and soil	Yes
3/13/2019 15:03:51	Jeevan C J	Chalakyady	Well	Concrete	10-20	Over flowed	Mud and soil	Yes
3/13/2019 15:05:02	Sujatha	Chalakyady	Well	Cement ring	Above 30	To a little extent	Mud and soil	No
3/13/2019 15:05:02	George	Chalakyady municipality	Well	Cement ring	10-20	Half	Mud and soil	Yes
3/13/2019 15:06:03	Dineshan	Chalakyady	Well	Cement ring	10-20	Over flowed	Mud and soil	Yes
3/13/2019 15:07:23	Ittip	Chalakyady	Well	Cement ring	0-10 years	Over flowed	Mud and soil	Yes
3/13/2019 15:07:30	Shajju P R	Chalakyady municipality	Well	Made up of red brick	Above 30	Over flowed	Mud and soil, Tar, oil etc.	Yes
3/13/2019 15:08:25	Lalitha	Chalakyady	Well	Cement ring	0-10 years	Over flowed	Mud and soil	Yes
4/13/2019 15:30:16	Nisan I V	Chalakyady	Well	Cement ring	10-20	Over flowed	Chemicals, Mud and soil	No

Need

Interviews and recording of collective memories



Apart from the given questionnaires, we have added our side of effort to get more information regarding the plight of the affected people.

Need help

Areas Covered

- 1 **Chalaky Municipality** - All 30 wards affected in the flood
- 2 **Kodasserry Panchayat** - 1,2,11,13,14,17,18,19 wards
- 3 **Kadukutty Panchayat**- 1,2,3,4, 6,15,16 Wards
- 4 **Parappookara Panchayat** - 2,4,15,16,17,18 wards.
- 5 **Meloor** -1,4,5,14,15,16 wards
- 6 **Pariyaram Panchayat** - 2,4 14,16,18 wards
- 7 **Kodakara** - 2,12,19 wards
- 8 **Mala Panchayat** - 1,5,9,14 wards
- 9 **Kuzhoor** - 6,10 wards
- 10 **Mattathoor** - 19,20 wards

Need help

prezi.com/p/edit/yfgr517kah4c/

The water after flood

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Team Members

- **Steffy Jose**
- **Rosemol M.D**
- **Femy K.J**
- **Rinol Rose R**
- **Meegha Jimmy**
- **Aleena T.S**
- **Gisty Johnson**
- **Krishnaja P.U**
- **Nayana M Vijayan**
- **Aneesha K.A**

Team Members

The Team

Back to Parent

Need help

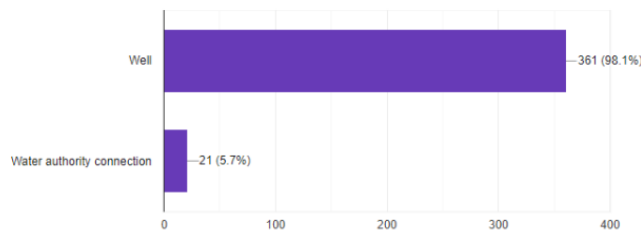
Question No.1 - Sources of water ?

Key Results and Findings

KEY FINDINGS

Sources of water ?

368 responses



- The main water source is well itself.
- Besides, water connection is also a source
- After the flood some people have shifted from well to water connection.

QUESTION NO. 2

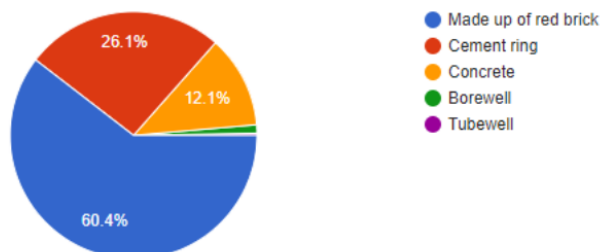
Need

Question No. 2- Type of well

Type of well

If the source is well

364 responses



KEY RESULTS

Since majority of wells are made up of red bricks, purification is easy.

Question No. 3

Need

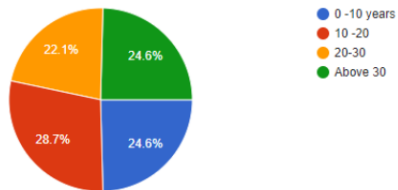
**Question No:-3
How old the wells are?**

KEY RESULTS

Most of the wells are continuously used for many years even more than 30 years. Cleaning them would a better solution.

How old ?

358 responses



Question No. 4

Need

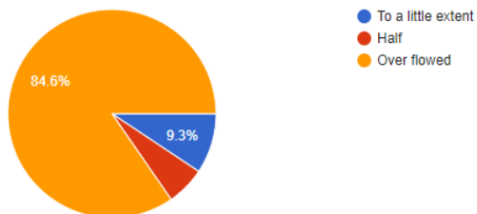
**Question No .4
Level of water and waste during flood?**

KEY RESULTS

During flood majority of the wells in the houses are overflowed. (approx. 84.6%)

Level of water and waste in well during flood ?

364 responses



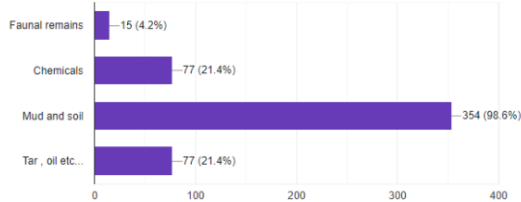
Question no.5

Need help ?

Question No.5 Which kind of waste?

Which kind of waste ?

359 responses



KEY RESULTS

The most amount of waste which was deposited in the well was mud and soil. (98.6%)

Even though the chemicals , tar and oil are comparatively less in quantity, the impact is huge - health complications, affects the livestocks and agriculture.

Faunal remains also constitute a big threat to human and animal life

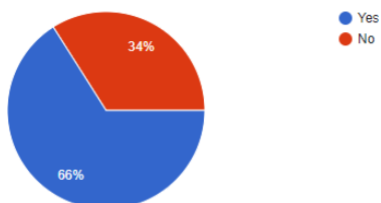
Question No. 6

Need

Question No.6 Whether any noticeable changes in well water after flood?

Whether any noticeable changes in well water after flood ?

362 responses



KEY RESULTS

Around 66% of people have said that they had noticed changes in the well water after flood.

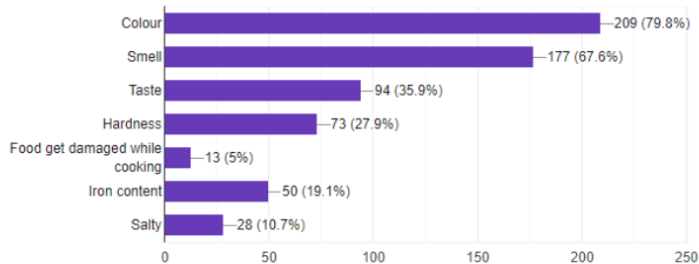
Question No. 7

Need

Question No. 7 If there is changes, what is it?

If there is changes , what it is ?

262 responses



KEY RESULTS

- People commented that colour changes are very common in their wells.
- There are possibilities of chemical and metal contamination behind the changes in colour, smell, taste etc.
- Smell of mud and dirt still persists even after several times of purification. The reasons are unknown!

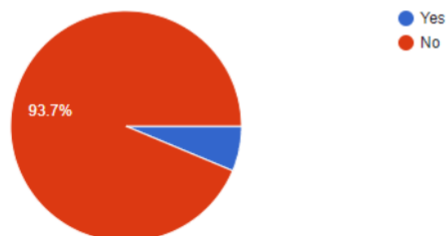
Question No. 8

Need help

Question No. 8 - Whether this problem is new?

Whether this problem faced before flood ?

349 responses



KEY RESULTS

- Most of the problems faced by the people are entirely new . They even dont know what to do !

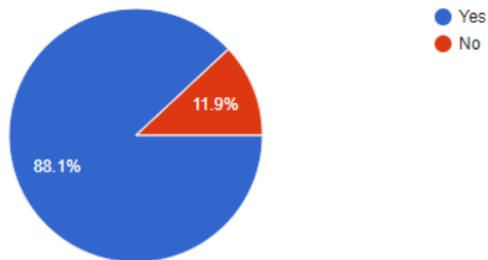
Question No. 9

Need help

**Question No. 9
Whether the well
was cleaned after
flood?**

Whether the well was cleaned after flood ?

360 responses



KEY RESULTS

- The shocking information was that 12% of the wells are yet to be cleaned and we also do not know the quality of the water in the cleaned wells

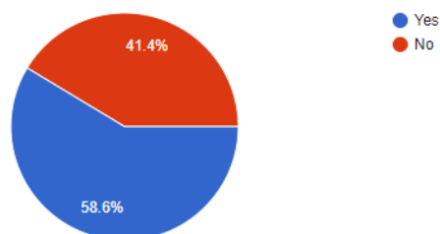
Question No. 10

Need h

**Question No.10-
Whether the
water was tested
or not?**

Whether the water tested or not?

365 responses



KEY RESULTS

- The normal testing is that of PH level measurements
- Detailed testing of different parameters is necessary

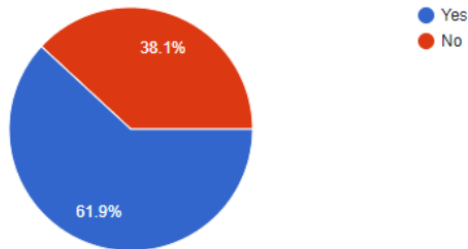
Question No. 11

Need

Question No. 11- If not, whether interested to test the water

If not , whether interested to test the water?

341 responses



KEY RESULTS

- This is an important indication of people. Majority of people wait for getting their water tested.
- Government and other agencies should do the needful to the people as fast as possible.

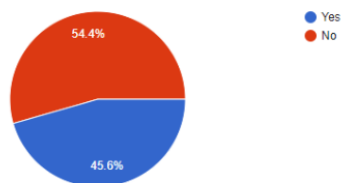
Question No. 12

Need

Question No. 12- Any kind of water purification methods ?

Do you have any kind of water purification methods?

371 responses

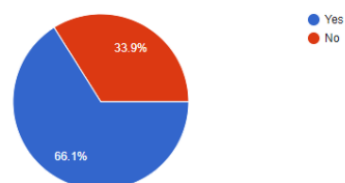


KEY RESULTS

- From the survey, it is understood that people are helpless to conduct purification by themselves
- A helping hand is important!

If not , whether interested to purify the water?

333 responses



Need

Conclusion

- The survey was productive as it have analyzed very deeply the issues to the core.
- Human lives has been greatly affected by the devastating flood.
- From the survey it is evident that majority of wells and water has been greatly contaminated.
- Quality of life is heavily affected with the deteriorated water quality.
- Food damage, skin allergies,vascular diseases are frequent .
- Even there are chances for diseases like cancer , ulcer, intestinal diseases and even genetic mutation for the future generation like the endosulfan victims.

What's
next

Need help

