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ARTICLE

Different Approach of Kamalvani Radio to inculcate the Mathematical Skills among Rural Artisan Women – Radio Mathematics Project

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Kamalvani Community Radio, Kolsiya, Jhunjhunu

RADIO KAMALVANI 90.4 MHz is run by Kamalnishtha Sansthan, in VPO-Kolsia, Via-Nawalgarh, District-Jhunjhunu (Rajasthan). Nawalgarh is a town in Jhunjhunu district of Rajasthan is part of the Shekhawati region and is midway between Jhunjhunu and Sikar. It is 30 km from Sikar and 39 km from Jhunjhunu .

Kamalvani advocates for peace, social and environmental justice through independent media and programming neglected by the mainstream. We embrace diversity, tolerance of

others' opinions and freedom of expression. KAMALVANI celebrates and promotes the creative, cultural and educational vitality of the local community. Kamalvani is committed to the values expressed by its mission, and by our activities hope to promote peace, goodwill and a sense of community beyond the walls of this radio station.

Background of Radio Mathematic

India is the land of well-known mathematicians like Aryabhatt and Srinivasan Ramanujan but still in the rural parts of India most of the people are uneducated and even scared of small calculations. Due to lack of mathematical knowledge and its applicability, there is a need to promote basic mathematics among the rural society. Kamalvani 90.4FM wants to take the opportunity through the project "Radio Mathematics Project for Artisans Society" to provide good understanding of basic mathematics to the rural society.

Radio mathematics project was taken up in MUST Radio, Mumbai on pilot scale and was a tremendous success. After the success on pilot scale this project is extended for other community radios.



The purpose of this project is to provide basic understanding of Mathematics to the local artisans so that they can implement this knowledge in their day to day life. Community radio is one of the best way to achieve the purpose of the project. As most of the people in rural areas are working all day long to make their livelihood so they don't have time to go to schools or to attend any kind of seminars. But they can get the knowledge while they are working through radio. Also, most of the programs will be in local language for better understanding of the facts.

'Radio Mathematics Project for Artisans Society' is to be tried through KAMALVANI CRS 90.4 FM the community radio of our NGO, Kamalnishtha Sansthan. In this project initially 180 programmes will be produced and captive audience will be identified. Various radio formats as well as convergent methods will be used. Events and competitions will also be organized, recorded, edited and presented in a way that is attractive and effective. The programmes will be designed by keeping in mind to suit the requirement of artisan community around the radio station and everyone else in general. Through this we will ensure that the programmes reach them and easily understood by them. The local communities will also be involved in developing and consolidating the programmes. They will be the participants in the programmes.

Justification for undertaking the proposed project

Our Hon'ble Prime Minister Sh. Narendra Modi has a vision of "Koshal Bharat-Kushal Bharat". Empowering the local artisans in mathematics will contribute in achieving the vision. This empowerment will assist in increasing their productivity and efficiency.

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Objectives of the project

1. To create interest among the local artisans in mathematics, remove the fear and develop their knowledge about mathematics.
2. To find out the effectiveness of community radio in creating interest among the local artisans and local society.
3. To increase the artisan's basic knowledge of mathematics and strengthen their subject fundamentals.
4. To create awareness among the local society regarding the applicability of mathematics.
5. Target local artisans and make them aware of basic mathematics to be used in their day to day.

6. Strengthen and improve the clarity of thoughts to help artisans to convert their assumptions into logical conclusions.
7. To develop positive problem solving attitude and develop the skills to approach all the problems in an organized manner.
8. To develop activity oriented mathematics to help different class of artisans in growing and eventually increase employability and productivity.
9. To aware rural illiterate artisans with very basics of mathematical economics to understand money lending and borrowing, loans, rate of interest etc.

THE WORKSHOP

Capacity Building Workshop:

To orient and build the capacities of community members, a capacity building workshop was organized from 2nd to 9th March 2017. About 20 Community Members and CRS Team attended the workshop. The key objectives of this workshop were to:

- Build capacities of community members and Radio Kamalvani team in producing appropriate and influential radio content for the Radio-Mathematics series.
- Production of 10 engaging radio programs that would be part of the Radio-Mathematics series of Radio Kamalvani.
- Mapping of themes, topics, and formats for the series (based on survey results)



Training Design:

The training modules were designed considering the education, experience, skill levels of the community members. The training includes modules and experiences from different capacity building workshops in similar community radio stations across India. An interrogative (ask, do, realize and reflect) and hands-on approach was followed. Apart from training the community members in basic radio production, the workshop also focused on building their capacities in identifying, discussing and scripting the programs which based on the use, impact, and importance of mathematics in day to day life of common people. It's also highly focused that practice is not only limited about the importance of mathematics but also implement in daily life- with the aim of empower the community women specially the Artisans in different skills.

All trainees were trained in all aspects of the program production. Based on the interest and skill level, some may focus on their area of interest and some may be multi-talented. Specific training was given to the team during the production process, and the list of production output reflects this.

In this workshop we produced Skill Development, Capacity Building and Voice Culture among the participants who are coming from the community.

The whole training process of capacity building and content development was organized under the guidance of Media professionals and Expert of CRS Sector Ms. Seema Bharti Srivastava from Voice of Azamgarh CRS, Uttar Pradesh. Mr.Vivek Sharma assists as local expert in studio production while Devilal Goswami & Mr. Abhishek Sharma were coordinated in event and field activities from CRS team. The overall coordination was looking after by Dr.D.P.Singh CMD-Kamalvani and Principal Coordinator of project .

Media Trainer: Seema Bharti Srivastava, Radio Azamgarh (UP)

Local Experts: Mr. Mahipal Singh, Lecturer-Poddar College,Nawalgarh

Miss Manisha Singh- Principal SSCBR-ITI, Kolsiya

Local Assistance: Vivek Sharma , DeviLal Goswami, Abhishek Sharma

Planning of workshop (Work-Plan)**Day one**

- a. Introduction with participants, Investigators and CRS team members.
- b. Visit with team to some nearby areas of CRS and meet and interact some respondent of base line survey for better understanding of community needs, dialect and content.

Day Two

- a. Formal training of Radio-Culture.
- b. What is radio
- c. What is community radio
- d. How to communicate with community
- e. Do and Don't in radio broadcasting.
- f. Brief introduction of Radio Formats-specially
 - 1-drama
 - 2-story
 - 3-musical -feature
 - 4-O-b recordings
 - 5-live shows
 - 6- Interactive shows
 - 7-from field
 - 8-event-capturing
 - 9-folk music
 - 10- radio-magazine

Day Three

- a. Writing for radio
- b. Language of radio writing.
- c. Scene-creation and story development
- d. Voice -culture
 - 1- Modulation
 - 2- Stress
 - 3- Pauses
 - 4- Flow

- 5- Use of mike
- 6- Use of I.C. recorder
- 7- Practice-script writing

Day Four

Programme - Content Development

- a. Practice of script-writing
- b. Group -formations
- c. Group-tasks
- d. Field-recordings for group 1
- e. Scripting for drama -group 2
- f. Title song making -group 3 with local musical group
- g. Basic training of studio recording and editing group 3

Day Five

- a. Review of previous day's work of all groups
- b. Finalizing scripts
- c. Some groups do OB recordings
- d. Compiling of recordings
- e. At least two programmes will made

Day Six

- a. Recordings of programmes
- b. Training of editing and dubbing to other groups
- c. Programme production
- d. At least three more programmes will made

Day Seven

- a. Recording of some songs with local musical groups
- b. editing, dubbing of recorded programmes
- c. programme production
- d. listening of produced programme

Day Eight

Finalizing all ten programmes.

The day started with the self-introduction. Each participant told their names, native and also shared their knowledge about use, importance and awareness of Mathematics in day

today life in their community specially in Artisans community.

After introduction participants were filled a short questionnaire about themselves “AAIYE JAANE KHUD KO”, and a group activity “AAO DOST BANEY” was organized by CRS to break hesitation.



After this activity the participants fixed the norms of the workshop for all the days. The facilitator explained the importance of the workshop and summarized the core objective and the expected outcome of the workshop in detail.

After this Miss Seema Bharti gave them formal introduction of Community Radio. Participants were visited to CRS and observed the equipment and working of Radio Station. After Lunch they share their experiences they also listen some pre-produced programs and asked the questions. A brainstorming exercise was organized where the participants present their views and idea about the skill development of mathematics in community.

DAY two

The second day was started with great energy of participants. After a brief recap of previous day work Miss Seema Bharti told them the “QUALITY OF GOOD BRODCASTER”. A group activity “JUST A MINUTE” was also organized to explore the voice culture and inner instinct. The participants were also known about the skill of communication verbal and non-verbal and also known about body language by trainer. After lunch participants gain deep knowledge of elements of radio broadcasting as language, formats, scripting, voice culture, music, sound effects, target audience etc.

She took a session on Script Writing and discussed the basic techniques of writing scripts by giving relevant examples. She gave them tips on how to make the programmes interesting .After the discussion and answering the queries on script writing, she gave them basic orientation about the formats to be used in making the programmes. In an Interactive session different radio format in Radio were discussed with relevant examples and demonstration

Thereafter, the participants were divided into three groups .After discussion, each group chose the topics for making the programmes. The topics were selected out of the broad issues which emerged from the already conducted baseline study. They were provided orientation about how to divide the topics in different themes

DAY three

Day third was beginning with the continuation of previous day. Miss Seema give detail knowledge of using formats, language, formats, scripting, voice culture, music, sound effects, target audience etc to the participants. In the next session participants known the use of IC recorders in OB recordings they also learned about the techniques of recordings and editing.



In third session they divided into groups and prepared the scripts in different formats. They presented their scripts and group discussion was held.

They also known the importance and relevance of interviews in making Radio programmes . The members of the group conducted the mock interview drill by taking each other's interview. Each exercise was reviewed and drawbacks were corrected. All the participants

got an idea of conducting an interview. This way the participants became more confident and gathered courage to conduct interviews in the community.

The scripts of all the three groups were discussed and reviewed. Experts made corrections in the scripts and gave suggestions for improvement. All the group members were asked to work on the scripts and present their final script on the next day.

DAY four

The fourth day started with the introduction of the process of pre- production stage of the programmes. Miss Seema instructed the participant how to write a script of a drama on various issues and how to record it . The participants were told about the process of indoor and outdoor recording .They were given training of using a digital recorder. The participants went for the outdoor recordings with Local experts and CRS Team Members,



It's also observed that the learning mathematics should be a fun. So at first the entire team reach nearby school and started playing with students .. in this outreach activity team prepared an audio programme on ODD and EVEN numbers. In this process we hunt a student of Class 9th Sumit Kumar who was a very good Actor... and later he plays role in other programmes also.



DAY five

It's the day again with full of energy and enthusiasm. Participants were ready to field visits. We started at 10:30 am by 2 taxies and Bikes to Kolsiya and Bay Village where the participants converse with community persons in field. They knew about the techniques of communication with unknown persons. They recorded the bites, views, songs, problems etc. of villagers specially the Artisans women.

The participants were briefed about the importance of community participation and involvement by giving relevant examples. They were provided the orientation of interacting with the community and were told how to conduct live programmes

One more episode is recorded in field with community women which is based on also a game—AAO KHELE EK KHEL- it is based on shapes. Some other recordings for other

programs are also done.





DAY Six

The day started with the process of programme production. The programmes were produced by the all groups. The process of content production was in progress in full swing mood.. All the groups worked in the studio and made programmes on the selected themes.



Studio recordings were also on progress dramas on Percentage, Area-mapping .and profit and loss were also recorded in studio. Some local groups of community women

were also recorded folk songs.

All participants were fully engaged in all activities.

DAY Seven

Day seven was full of technical and practical Tasks. The groups were finalized their scripts, recorded them, edited them and prepared five episodes of selected issues. The entire task was held under the guidance of Miss Seema Bharti with the collaboration of Mr. Vivek, Mr. Abhishek and Mr. Devilal.

One Ouiz Programme was also organized for community members with the help of the students of Poddar College, Nawalgarh, based on simple mathematical problems

DAY Eight

It's was a hectic day for episodes were left to production.

Signature tune and one song on maths were also recoded, all the groups with CR team members done work hard and at least it was at 8 pm. all 10 episodes was completed.

Now it was the time of valedictory session Ms. Seema Bharti Srivastava, Expert of CRS Sector, Dr.D.P.Singh CMD-Kamalvani and Principal Coordinator of project Mr.Mahipal Singh principal investigator. Mrs.Vimla Devi – Sarpanch, Mr.Vivek Sharma, Mr. Devilal Goswami, Mr. Abhishek Sharma and other team members blessed to all participants and wish them for their bright future.

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