

## **Best Practice 1 : Village Adaption**

### **A Report on Outstanding achievement by means of institutional level intervention for societal development in nearby areas**

#### **Part-I : Abstract**

CMR Institute of Technology (CMRIT) is a pioneer institute in Bangalore with its curriculum tailored to teach the students real world skills and make them problem solvers. The institute emphasizes on collective growth through creation and dissemination of knowledge. The student communities within CMRIT act as a platform that provides an opportunity for young men and women to enhance the knowledge and skills that will assist them in personal development, to address the physical and social needs of their communities. The student communities actively take part in the brainstorming of solutions to the countless problems faced by the rural areas. The institute has always encouraged and supported a collaborative atmosphere that give rise to technological and social innovations.

#### **Part-II : Detailed Report**

##### **1. Introduction**

CMR Institute of Technology identified Marasandra village, Bagalur, Bangalore Rural district as a part of our University Social Responsibility (USR) mission. CMRIT has taken up this initiative to help the village around the area of education, healthcare, agriculture, energy, environment, and others, through various schemes and seminars.

##### **2. Focused Area**

Below are the focused areas and the possible activities that can be carried out as part of Village adaption.

CMRIT has successfully lent a helping hand to the villagers of Marasandra and concentrating in the following areas:

- Assisting in organizing socially benefiting events for the villagers
- To look after the over-all development i.e. improving the cleanliness and hygiene standards of the village
- To provide skills in the improvement of education and technical skills
- Introduction of innovative technological solutions to improve the quality of life of villagers
- Organize health check-ups with the help of medical experts.

##### **3. Approach to the Problem: As a first step started with the visit to Marasandra Village on 12<sup>th</sup> October 2018 as mentioned below.**

Faculty and student coordinators of CMRIT left to the GRAM PANCHAYAT PRESIDENT'S house. A healthy discussion over the present scenario of the remote village took place.

We were told that the Govt. school building collapsed a few months ago and the school was shut for about 5 years. There were issues related the street lights, roads, cattle sheds etc. The people of the village gave us a lot of attention and love. The village is at a very remote place, were the transportation facilities are good but not the roads. The people whoever could afford to buy cows

on loans also went to work as daily wagers. There was a very good source of water, but improvement in the pipelines and drainage was necessary. There was lack of literacy as passing grade 10 was considered like holding a degree.

DR.B.Narsimhamurthy (VICE PRINCIPAL CMRIT), Prof.SHARMILA (EE&C Cell), Prof. GIRISH (ROTARACT), Prof. MANJUNATH and Prof.NARESH DIXIT (NSS) were accompanied by the student coordinators KAUSHEESH.G (NSS) and Rtr.SOPHIA (ROTARACT)

THE REQUIREMENTS OF THE VILLAGERS WERE AS FOLLOWS:-

- \*SCHOOL BUILDING WITH OPEN GYM AND PLAY AREA
- \*DRAINAGE SYSTEM
- \*CATTLE MATS
- \*BOREWELL
- \*WASHROOMS
- \*RO PLANT
- \*GOOBER GAS PLANT
- \*ROADS
- \*HIGH MASH LIGHT AT THE VILLAGE CENTRE
- \*A MEETING ZONE
- \*PLANT MORE TREES WITH TREE GUARDS
- \*BUY CATTLE

**4. Implementation Undertaken:** Below two steps have been undertaken:

**1. Inauguration of Village adoption and Surveying of Marasandra village**

DATE & TIME: 27th October 2018, 8:30am-2pm, NO.OF.ATTENDEES:130

**DESCRIPTION**

The main agenda for the day was to complete surveying in all the 220 houses that were part of Marsandra. After arriving at the site, the team leads were made to identify the boundary lines for their respective grids. The Memorandum of Understanding (MoU) was signed between CMRIT and Marsandra village. Shortly after, the principal along with vice-principal and the chairman of the village addressed the crowd and applauded the students for taking up such a task. Briefly after that, the students moved on to surveying activity and it was completed in 2 hours. After all the 12 teams completed the tasks assigned to them, departure plans were initiated. Prof. Sharmila (Head, EE&C cell) along with Prof. Girish(Rotaract) and Prof. Naresh(NSS) came together to achieve the initiative along with the respective student heads; Rtr.Aarathi,Rtr.Sophia and Kausheesh.

**SUMMARY**

The enthusiastic and hopeful crowd of 125 students ( 60 students from NSS, 60 students from Rotaract and 25 students from Innovation club) and faculty departed from the CMRIT campus at 8:30AM.The 90 minute journey till Marsandra was filled with excitement and hopefulness on the task ahead. The team of students and faculty arrived around 10AM at the village centre. With the guidance of Prof. Naresh, the 12 grids were identified and noted by all the 12 team leads. Soon after, the MoU was signed between Marsandra village and CMRIT with the village chairman and the Principal as representatives for both the parties. The principal Dr.Sanjay Jain and the vice- principal Prof. B.Narasimha Murthy addressed the joint crowd of students, teachers and villagers sharing their encouragement and support for the initiative. At 10:45AM, the teams made, moved on to the task assigned and conducted survey in the allocated grids using the village household survey that was prepared beforehand. A few students filled the village survey form taking help and inputs from the ex-chairman Mr Hemanathappa, of the village. Within 2 hours, at 12:45PM the task assigned was completed and all the teams reported back to their club heads at the starting points. During lunch, the experiences and reports were exchanged, shared and compared. After lunch, departure arrangements were made and after exchanging their goodbyes with the villagers, the volunteers left to return to the city. The overall experience was a benefitting and heart-warming experience for everyone that was involved

## 2. Free Medical Camp

A **Free Medical Camp** was conducted at **Marasandra Village**, Bangalore on **09.02.2019**, Saturday by the **Department of Information Science and Engineering** in association with **External Examination and Competition Cell**, CMR Institute of Technology – Bangalore. The camp was supported by 2 doctors and 2 staff members from Suraksha Multi Specialty Hospital, Varthur.

The camp started at 10.00 a.m. and ended at 1.00 p.m. Attendees were registered at a registration desk where their details, along with their weight were taken down. Then they were directed to **Dr. N.Sekhar**, for a general health check-up, where the required blood pressure of the patients was also done. Patients who were prescribed some basic medicines that were made available by the CMR Institute of Technology at the free medical camp. And also a free dosage was given for up to 5 days.

Next, they were directed to **Dr.Nimai Chandra** for a free diabetes check-up, where the cases in need were given free medicines. The medicines provided by the CMR Institute of Technology hospital free of cost were Paracetamol, Gelusil, Avil, B-Complex vitamin, Calcium supplement, Septran, Diclofenac and Mebex.

Around **70** people of Marasandra Village were benefited through this free medical camp. Free Blood Pressure and Diabetes Checkup organized by ISE Dept. and EE & C Cell of CMRIT at Marasandra Village, Bangalore on 9.2.2019, Saturday.



## 5. Measurable Outcomes Achieved:

We have identified 5 students who will help residents of the village to take necessary action for their own benefit and thereby spread awareness on the mentioned issues. The following students have volunteered to cultivate knowledge and awareness regarding child literacy, vaccinations, medical health, hygiene and waste management through timely visits to the village.

- 1) Rotaract Club President - Sophia Marie Augustine ( USN-1CR16CS164)
- 2) Innovation Club Coordinator - Aarathi Nair(USN-1CR16CS002)
- 3) NSS Coordinator - Kausheesh Gowda
- 4) Rotaract Community Service Director- Sunayana Rao(USN-1CR16CS167)
- 5) Active Member, Rotaract Club- Meghana Menon(USN-1CR16CS088)

Our responsibilities include the development of the village residents and the following are a few steps taken for the betterment of the village.

- 1) Medical health camp
- 2) Awareness workshops
- 3) Pulse Polio Camp
- 4) Anganwadi workshop
- 5) Plant saplings around the village

We have identified 6 Welfare schemes and 2 Housing loan schemes (State /Central Government) for the welfare of the villagers. The following welfare measures have been introduced and awareness sessions have been conducted.

## **I Welfare Schemes**

1. Karnataka Government's Education Welfare Schemes
2. Women and Child Welfare Initiatives by Karnataka Government
3. Labour Welfare by Karnataka Government
4. Health and Family Welfare Initiatives by Karnataka Government
5. Welfare of the Disabled Population by Karnataka Government
6. The scheme for educating girl students

## **II Housing Schemes**

1. **Pradhan Mantri Awas Yojana**
2. **Rajiv Gandhi Rural Housing Corporation Limited**

We find it our foremost duty to develop new ideas through innovation. CMRIT shall be expected to put in efforts to introduce basic level of technology to the villagers that help in improving the living standards of the village. The following paragraph contains some of the ideas listed by our students and faculties.

1. Organic waste treatment plant with bio-digesters which will produce bio gas that in turn will run a flour mill with the help of an Internal combustion engine for hard grains.
2. Pedal operated flour mill for soft grains like batters using complex gears.
3. Rain water harvesting-cum-ground water restoration with ph level sensor based automatic shutdown valve.
4. Customized user friendly mobile application for villagers. This app will be entirely in Kannada and will contain symbols to understand the options easily. It will provide emergency numbers and other services, bus timings auto driver numbers etc
5. Small scale irrigation system: Since many villagers have their own small farms in front of their houses, install a modified sprinkler system designed by CMRIT students in those small scale farm.
6. Making thermal batteries using solar energy.
7. An ultrasound based mosquito repellent.
8. Small scale Gobar gas setup from the large organic waste generated.
9. Anganwadi management system

10. Farmer Mate App: This Application helps farmers in the village to identify the diseases of the crop based on image processing. It also gives the solution to the problem.

## 6. Conclusion

CMRIT's initiative to adopt village Marsandra, Bagalur is to provide a better lifestyle to the inhabitants of the village which requires tremendous support & funding. This is directly translated initiatives in the form of various activities and projects to be implemented that reflect in the improvement of the village. The major problems faced by the villagers included water supply, electricity supply and poor drainage systems. The villagers requested for a large central street light for the village centre that acts as the bus stop for the village as well. Overall, the village seemed to be having varied levels of households in terms of income as well as lifestyle conditions.

## 7. Media Report/Photos:

Publication	Edition	Headline	Language name	Date of publication	Reporter	Paper Type	View
The New Indian Express	Bangalore	CMR Institute of Technology, gram panchayat join forces to improve village	English	13th November 2018	NA	Print/Online	<a href="http://www.newindianexpress.com/cities/bengaluru/2018/nov/13/cmr-institute-of-technology-gram-panchayat-join-forces-to-improve-village-1897430.html">http://www.newindianexpress.com/cities/bengaluru/2018/nov/13/cmr-institute-of-technology-gram-panchayat-join-forces-to-improve-village-1897430.html</a>
One India Kanna da	Bangalore	CMR Institute of Technology adopts Marasandra village	Kanna da	13th November 2018	Mahesh Malnad	Online	<a href="https://kannada.oneindia.com/news/bangalore/cmr-institute-technology-adopts-marasandra-village-153870.html">https://kannada.oneindia.com/news/bangalore/cmr-institute-technology-adopts-marasandra-village-153870.html</a>
APN News	Bangalore	CMR Institute of Technology adopts Marasandra village	English	12 <sup>th</sup> November 2018	NA	Online	<a href="https://www.apnnews.com/cmr-institute-of-technology-adopts-marasandra-village/">https://www.apnnews.com/cmr-institute-of-technology-adopts-marasandra-village/</a>
Indian CSR	Bangalore	CMR Institute of Technology adopts Marasandra village	English	13 <sup>th</sup> November 2018	NA	Online	<a href="http://indiacr.in/cmr-institute-of-technology-adopts-marasandra-village/">http://indiacr.in/cmr-institute-of-technology-adopts-marasandra-village/</a>
Indian Newz	Bangalore	CMR Institute of Technology adopts Marasandra village	English	13 <sup>th</sup> November 2018	NA	Online	<a href="https://indiannewz25528190.wordpress.com/2018/11/13/cmr-institute-of-technology-adopts-marasandra-village/">https://indiannewz25528190.wordpress.com/2018/11/13/cmr-institute-of-technology-adopts-marasandra-village/</a>
The Education Times	Bangalore	CMR Institute of Technology adopts Marasandra village	English	12 <sup>th</sup> November 2018	NA	Online	<a href="http://theeducationtimes.in/2018/11/12/cmr-institute-of-technologyadoptsmarasandra-village/">http://theeducationtimes.in/2018/11/12/cmr-institute-of-technologyadoptsmarasandra-village/</a>





## UBA Activities

CMR Institute of Technology has been a part of Unnat Bharat Abhiyan from 2019. The villages adopted by CMR Institute of Technology, Bengaluru are

- Upparapete
- Doddaganjur
- Chinnasandra
- Kagathi
- Kuruburu

Following are the links for different activities under UBA

Village information:

<https://drive.google.com/drive/folders/1X15ivdFe49Apm9iYbma1ahclF6iidjj6?usp=sharing>

Field visits:

<https://drive.google.com/drive/folders/1w5WQzQA54 - t67LQCS0JZEB5S2vW4wKD?usp=sharing>

Implemented projects:

<https://drive.google.com/drive/folders/1fWS7N2t9rdp4IZEOmgAyuMYWXb2AMgBH?usp=sharing>