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Chambal Fertilisers and Chemicals Limited
Gadepan, District Kota
Rajasthan- 325208

Detailed Impact Assessment Report on Corporate Social Responsibility Projects of Chambal Fertilisers and Chemicals Limited

The current study aims to assess the impact and satisfaction level of Corporate Social Responsibility ("CSR") projects and programmes of Chambal Fertilisers and Chemicals Limited ("CFCL") amongst the stakeholders in the core and peripheral villages of Kota, Baran and Jhalawar districts.

Total 5 CSR projects of CFCL are eligible for conducting impact assessment study. These projects are **Project Akshar** – Pre-primary and School Education, **Project Saksham** – Technical and Vocational Education, **Project Arogya** – Healthcare and Sanitation, **Project Saakar** – Rural Development and **Project Bhoomi** – Environment Sustainability, Animal Welfare and Soil Health. Exploring the efficacy of these projects has provided a coherent and clear image of the operational, processes and behavioral impact.

METHODOLOGY AND STUDY AREA

Methodology

The study adopted a descriptive research design and relied on both quantitative and qualitative data. The study followed a four-step strategy, comprising desk review and design of tools; field work; data entry; cleaning and analysis and report writing.

Desk Research

Under secondary research, a thorough desk review was undertaken to develop insight into the key areas of the Primary research. Various documents related to the projects available with CFCL and its implementing partners were examined to get relevant information regarding implementation of the projects.

Primary Research

Under the primary research, both quantitative and qualitative data were collected by inspecting and examining all the five project sites. Besides collecting the requisite information about the projects from the project implementing officers, beneficiaries of the projects were interacted to assess the impact of the projects, as under:

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S. No.	CSR Initiatives		Tools used
	Projects	Theme	
1.	Project Akshar	Pre-primary and School Education &	• In Depth Interviews • Focus Group Discussion • Observation Checklist
	Project Saksham	Technical and Vocational Education	
2.	Project Saakar	Rural Development Initiative	• In Depth Interviews • Observation Checklist
3.	Project Arogya	Health Care and Sanitation Initiatives	• In Depth Interviews • Focus Group Discussion
4.	Project Bhoomi	Environmental Sustainable Animal Welfare and Soil Health Initiatives	• In Depth Interviews • Focus Group Discussion

Field Work and Data Management

The field data was collected during March 2022. All the filled-in questionnaires were checked and scrutinized at the field before leaving the fieldwork area. The quality of data was ensured as the questionnaires are mostly filled by the Senior Team member of Federation of Indian Chambers of Commerce & Industry ("FICCI"). The collected data and information were analyzed according to the analysis plan.

Sample selection

CFCL has undertaken initiatives in various verticals to support rural communities. The selection of the sample for impact assessment is dependent on the project type. The sampling is done under the COVID scenario in March 2022, which has hampered the selection of the far-flung areas of the intervention. However, in total 20-25% sample has been covered under each project.

S. No.	CSR Initiatives		Rajasthan Districts	Sample Coverage
	Projects	Theme		
1.	Project Akshar & Project Saksham	Pre -primary and School Education & Technical and Vocational Education	Kota Baran Jhalawar	• 20% Aanganwadi Centers visited. In-depth discussion with Aanganwadi workers. • 25% of Schools visited for observation. • In-depth discussion with teachers and principal in each school. • Focused group discussion with school management committee in each school. • In depth Interaction with project implementation agencies.



				• In depth Interaction with District Education Officer and Deputy Director, Integrated Child Development Services. • Focused group discussion with Government Instructors of Industrial Training Institutes (ITI). • Observation checklist in ITIs. • Interaction with students and alumni of ITIs.
2.	Project Saakar	Rural Development Initiative	Kota Baran	• Village visit for observations of infrastructure development. • In depth Interaction with Gram Panchayat representatives and sarpanch of selected Gram Panchayats of Kota district.
3.	Project Arogya	Health Care and Sanitation Initiatives	Kota Baran	• Focused group discussion with community members in villages. • In depth Interaction with the project implementation agency.
4.	Project Bhoomi	Environmental Sustainability, Animal Welfare, and Soil Health Initiatives	Kota Baran	• Visit to Agriculture Development Lab, Gadepan for observation and interaction. • Interaction with the concerned officials of ADL Gadepan and Agra. • Focused group discussion with farmers of selected villages of Kota district.

IMPACT ASSESSMENT

PROJECT AKSHAR – PRE-PRIMARY AND SCHOOL EDUCATION

CFCL chalked out the need of the rural people in a strategic manner and designed the interventions in various domains through its need assessment survey. The study revealed that there is an urgent need to cater the infrastructure requirements, up gradation of facilities and improvement in quality of education in all sections starting from Aanganwadi centers to Government Schools. In order to develop these institutions, Memorandum of Understanding ("MoU") was done with the concerned Government departments.



Project Akshar was initiated by CFCL to extend educational support to the Aanganwadi Centres and rural Government Schools (Primary, Upper Primary, Secondary and Senior Secondary Schools) of Kota and Baran districts of Rajasthan. The company is determined to meet the objectives of the **Project Akshar**, which are:

- Up gradation of the existing infrastructure of Government Aanganwadi centres and Government Schools.
- Imparting quality education beginning from the elementary years to the higher education of the child.
- Providing high tech learning equipment by equipping schools with digital means of learning.

Project interventions in Aanganwadi centers

The adopted Aanganwadi centres were developed on the basis of kindergarten concept wherein the students were divided into LKG, UKG and HKG groups, based on their age. This concept helps in imparting age-appropriate learning to students. The kindergarten clustering approach helped to transform 41 models Aanganwadi across 32 villages into education seeding centres. The toddlers' learning abilities were strengthened by the Aanganwadi workers guided by trained teachers, preparing them for the formal education system.

Impact Assessment Study

The impact assessment study was conducted in 08 centers out of 41 adopted centers of Kota and Baran districts. The selection of the centers for the survey was based on the literature review and interventions done in adopted centers. The tools that were developed to capture the data were run in all the selected centers. The In-Depth discussions were conducted with the Aanganwadi workers / Sahayika and the focus Group Discussions was conducted in each district with mothers.

The Aanganwadi Centres were turned into child development and educational hubs through lively rooms, functional toilets and child-friendly furniture, such as round tables and low-height chairs. A unique environment enhanced with educational wall paintings, e-learning aids, learning activities and toys was provided to develop the child's cognitive and motor skills.

The Aanganwadi centres that were in dilapidated condition were re - constructed on Government land in school premises. The construction was done, focusing on every minute detail, by keeping all necessary demands of the community in mind. The same model was adopted across all the adopted center.

Status of Infrastructure

The newly constructed Aanganwadi centers are having three spacious rooms with attached child friendly and easily accessible toilet facility. Provisions are made to ensure water supply in the center



with overhead tanks. The central hall of the building can accommodate approximately 50 children which creates a good space for running an Aanganwadi center in the village. All Aanganwadi centers were well-equipped with tables and chairs for kids. Specially designed low-rise tables and chairs were made available in sufficiency in each center.

Status of Enrolment

As per the secondary data, the enrollment was in dismal state as only few children were enrolled in the aanganwadi centers and most of the children were going to school in very early age. This was also affecting their age-appropriate learnings. As a result of the intervention of the company, the rural community is now shifting towards aanganwadi centers and large number of children were enrolled in these adopted centers.

Awareness amongst Aanganwadi Workers

In-Depth Discussions were conducted with Aanganwadi workers in selected Aanganwadi centers to access the status of awareness and services that were being provided in centers by Government and CFCL. The data collected were further analyzed on the basis of the following parameters:

- Adeptness in Aanganwadi centres,
- Expertise in attending children and women by fulfilling the needs of food, medicines and information,
- Proficiency of maintaining records,
- Delivering right information to the pregnant & lactating women and mothers registered in nearest centers on nutrition, maternal health and immunization,
- Competence in linking the beneficiaries with Integrated Child Development Services (ICDS) program by filling up of forms and maintaining the records.

During the discussion, it was found that aanganwadi workers are fully aware of all schemes, programs and support is mechanism made available for children, pregnant women and lactating women. The departmental training programs are being conducted on regular basis which is helping them to get the latest information and deliver better services to the target group. The records related to the program intervention are well maintained by the aanganwadi workers.

Imparting Quality Education and monitoring of the project –

The company ensures a very systematic approach while teaching and delivering academic content to the children. Regular training programs for the academic staff helped to understand the project needs and adopt new methods for teaching with fun.



"The teacher from NGO visited us at the household frequently in the lockdown period as well. She said that if we send our children to the Aanganwadi Centres, then our child will learn more than we have expected. I have seen the development in my child. Now she is able to tell us a poem and the letter of the alphabet which we have never heard from her before."

----A mother's statement during the Focus Group Discussion

Apart from regular monitoring, a special District Task Force team along with the members of Women and Child Development Department of Rajasthan, Block Development Officer, representatives of the company and others, monitor the project(s) frequently. The internal assessment of the quality education program has also been conducted by partner organizations and shared with the company on regular basis.

"CFCL teacher is a blessing for us; earlier we were not aware that the Aanganwadi center exists in our village. We are the witness of development of this center. CFCL has given a gift to us. The Aanganwadi worker with the teacher madam came to us to provide all kinds of information from the birth of our child to his completion of six years. Now we have admitted him to government primary school in our village only."

----- Radha, Sultanpur, Kota



AW Center - Before



AW Center – After

Project interventions in Government Schools

Primary education is one of key the Sustainable Development Goals that motivated CFCL to contribute to education for all children in the surrounding communities. Education is the key to social and economic development. It paves way for sustainable societies that value knowledge, promote a culture of peace, celebrate diversity and defend human rights. However, despite recent progress towards Education for All, millions of children, youth, and adults still lack access to good quality education and the benefits it brings.

CFCL has framed an education strategy to improve opportunities for primary and secondary education for the children in the community. There has been a constant demand from the community to improve the education standards of nearby government schools to compete with good private schools of the area.

Overview of the Need Assessment Study for Schools

CFCL conducted a need assessment of schools that shown poor infrastructure, ignorance and non-functionality of the School Management Committee, curriculum, staff, and equipment. The community people demanded proper primary and upper primary schools in their villages.

Impact assessment

Impact assessment study was conducted in 14 Government schools of Kota and Baran districts of Rajasthan. The selection of schools was based on the literature review and secondary data. Data Collection tools like In-depth discussions, Focused group discussions, observation, and secondary data analysis were used in schools to collect the data. The key participants for the study were teachers, principals, school management committee members and local community.

Observations –

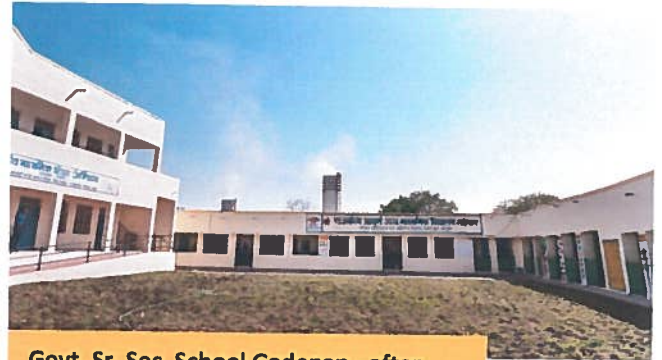
Infrastructure Development

According to the need assessment survey report, there was a tremendous need for appropriate school infrastructure in each village. There was a lack of interest in attending school and hence the dropout rate of students was high, which was directly related with the lack of proper infrastructure. With the idea of imparting quality education to the children in rural areas, the Company has created infrastructure development plans in phase manner by considering the needs of the schools. Selected schools were adopted with the department and upgraded in phased manner. The schools are now having a good ambience and appropriate infrastructure facilities for each class. Supporting infrastructure facilities like separate toilet blocks, drinking water facilities, sports area, parking area also created a meaningful impact in the minds of the community. This has resulted in increase in enrollment rates.





Govt. Sr. Sec. School Gadepan - before



Govt. Sr. Sec. School Gadepan - after

KEY HIGHLIGHTS OF SCHOOLS INITIATIVES



Social Development

- Primary Schools, 17 Upper Primary Schools and 16 Senior Secondary Schools in 35 villages
- Over 7000 students benefitted through these schools
- Significant increase in school enrolments
- Number of girls at 53%, exceeds number of boys in these schools
- Samvartika, a unique annual cultural program, is a confluence of children from 44 schools and 41 aanganwadis.



Quality Education

- Remedial classes helping schools achieve nearly 100% results in board exams
- Setting up science labs in schools to help develop a scientific temperament amongst students



Modernization of Infrastructure

- Separate toilet blocks for boys and girls constructed in each adopted school.
- Each school equipped with computers to train children in information technology
- Digital SMART classes installed in schools to provide students a new learning experience
- Sports facilities developed in each school to promote sportsmanship amongst students
- Providing school uniforms, remedial classes and health check up facilities in schools for the overall development of students

Quality Education

Additional academic staff and teachers are deployed in each school as per the requirements. The alternate day teachers' arrangements in class 6th to 8th is being done to reduce the educational burden from students. Regular focus is being given in higher classes to ensure good results. Additional work books and support material were made available to the students. Meritorious students were provided with tables, chairs, solar lamps and tablets. This initiative has impacted a number of students over the years and played critical role in enabling students' access to higher education.

Digital means of learning like computer classes, English labs and SMART boards were introduced in the schools to improve educational experience of the students. Pre, mid and end term assessment process is being followed by the academic staff to understand the learning levels of the students. Based on the outcomes of the assessment process, support is given to the needy students.

Science labs and computer labs are being installed by the company in all schools in phased manner. The initiative is helping the schools to deliver new content to the students and focus on practical learning of various science concepts.

Sports and Other Curriculum Activities

Sports and extra-curricular activities help to develop mental growth and increases the power of reasoning of students. CFCL has introduced sports by developing sports facilities and delivering sports kits in each school and encouraged students to take active participation in sports activities. The students and teachers have recognized the efforts of the company in organizing Annual day function of adopted schools 'Samvartika' where students are able to showcase their talent. These initiatives are helpful in creating a conducive environment for school education.

Discussion with the Principal and Teachers

The Principal and Teachers have expressed their satisfaction on the improvement in infrastructure and quality teaching. The principals of the schools were mostly found concerned with the infrastructure development. They always look forward for support in classroom construction or provision of any other equipment from CFCL.

Teachers & other staff were also helpful towards the guest faculty coming to their school. One of the teachers expressed his view during the In-depth discussion that

"We are grateful that CFCL appointed guest faculty to help us in three subjects Mathematics, Science and English. Every month the guest faculty discusses with us the syllabus that need to complete. Accordingly, the schedule of teaching is prepared for a day. The computer teacher has also helped us to learn the functioning of smart boards".

-----A statement by a teacher in Govt. Senior Secondary School, Bamori, Kota District

School Management Committee ("SMCs") / School Development and management Committee

The need assessment stated that the schools were facing issues with the SMCs. Either the SMCs were not functional, or the members were disinterested in attending the problems of the schools.

After the interventions, the SMCs were regrouped and revived and have been actively participating in solving the issues the schools are facing. CFCL has also developed a mechanism to activate the

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SMCs under the project. It made compulsory that any need of the school will be discussed with the SMCs first. In this way, the SMC members have been now actively participating and attending meetings with the school every month.

Impact of interventions in Schools

Increase in Enrolment, No Dropout Rate

The enrollment in all schools have increased multifold. The quality infrastructure facilities enabled in the schools have created an impact amongst community members to send their wards to Government Schools. Over 7000 students were studying in schools. The girl child enrollment also got improved to a significant level. Significantly, the dropout rates brought down to zero due to continuous improvement in academic levels and up gradation of infrastructure facilities.

Status of Infrastructure

There has been a complete transformation in the adopted rural government schools. The results of observations that were made during the impact assessment are as follows-

- The interlocking pathways were constructed from the entrance gate to main building of the school to provide easy access round the year. The indoor and outdoor of the buildings were painted with soothing colors that attracts more children to come for learning. The boundary walls are also constructed to protect the surroundings.
- The survey revealed that girls feel more comfortable in attending the school as the boundary walls protects the campus from all sides.
- Separate toilets and urinals for boys and girls were constructed in each school. This has also impacted positively on girl students. Earlier, the drop-out rate was usually recorded amongst the adolescent / senior secondary girls. Girls reported that the sanitary napkin dispensers and incinerators were very useful for them as they can now dispose the used sanitary napkins easily. They find comfortable to stay in school for long hours.
- Parents of the students also responded that they were very much satisfied with the initiative and expressed their willingness to send their children to school.

Smart class intervention

- During interactions with the teachers, it was understood that these classes were very helpful, as children were now able to grasp concepts easily.
- Teachers also pointed out an overall improvement and enthusiasm in students towards the classes were observed, since installation of new teaching materials.
- It was noted that currently one period for each class was conducted every day and distributed in a way to ensure that all the subjects were covered evenly via smart classes.



- Principals also communicated that the smart classes have helped in changing the community's perception towards schools. Also, they were hopeful that these interventions will have a long-term impact on the school performance.
- Students of classes 9th to 12th were able to use smart boards effectively and effortlessly; they were aware of various common and hidden features of the smart boards.



Digital learning through SMART Classes in Schools

Quality Education

- Remedial learning centers were being run during school hours and before or after school hours to bridge the learning gap in students.
- Students were able to understand digital learning and capable of creating and developing their own video clips.
- The students were seen participating enthusiastically in annual functions and digital learning programs.
- Schools' overall performance has improved as they were providing better education facilities. Many students were able to score marks with distinction in 10th and 12th standards.
- Government has also shown interests in CFCL interventions and replicating the model in other schools as well.

PROJECT SAKSHAM – TECHNICAL AND VOCATIONAL EDUCATION

Project Saksham is the finest initiative of CFCL for the technical skill development of youth in Rajasthan. The development, renovation and upgrading of Industrial Training Institutes has provided exceptional support to the young people from the community.

CFCL signed MoU with the Government of Rajasthan to establish an excellent example of exemplary Industrial Training Institute in the region. To achieve the aim, the Company has adopted five industrial training institutes in Sangod, Sultanpur, Baran, Jhalawar and Khanpur in Kota, Baran and Jhalawar districts.

Program interventions



Training

- Over 1300 youngsters girls and boys are trained annually in ten different trades
- Students are securing high ranks in All India Apprenticeship Examination



Placement

- 23 Industries are engaged for placement of students
- Robust mechanism of Placement of students
- 80% placement from all institutes. Good placement opportunities for students in reputed companies



Courses

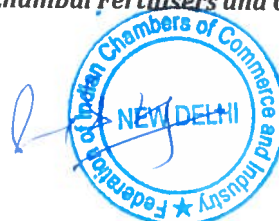
- Well trained Faculty and state of the art labs for Computer operator and Programming Assistant, **Mechanic Electronics**, Electrician, Wireman, Refrigeration and AC mechanic, Fitter, Welder, Plumber, Diesel Mechanic, Sewing Technology in ITIs.

Impact Assessment study

The impact assessment study was conducted in two ITIs, due to restriction of commuting in much restricted COVID conditions. The visits to Jhalawar and Sangod institutes provided a complete picture of the project initiatives. The In-Depth Discussion with the staff, students and thorough observation checklist were used in the surveyed institutes. The salient points from In-Depth Discussion and observation checklist are as follows

Infrastructure

- The adopted ITIs were completely transformed and upgraded into advance technical institutions. The classrooms, staff rooms, halls, corridors, workshops were restored and repaired to create a unique learning experience and undertake practical classes on regular basis.
- Classroom and other workshops were renovated as per the requirement and additional rooms were turned into conference hall and meeting halls in ITIs. These rooms are having all basic facilities and advance technology to conduct online classes and video conferencing facilities. This has helped in conducting online lectures during COVID pandemic as well.
- Library rooms were constructed and computer literacy program was introduced in all ITIs.
- Separate girls' room with attached washroom facilities were provided in each ITI to create a safe place for rest and emergency usage.
- Drinking water facilities such as Water cooler, attached with RO were provided.



- Landscaping and gardening of the premises with the shaded parking area for vehicles were created. This has resulted into creating greenery in institutes. A large number of plants are also planted in each institute.
- Sports facilities are also created in each institute to promote sports amongst students. The students are leveraging benefits of sports area and participating in various sports tournaments.

Students' Enrolment

1. The institutes are offering courses for a minimum duration of one year to a maximum of two years.
2. These institutes are offering more than 1300 seats on annual basis in 10 different trades. In comparison to past years, available seats in all institutes are nearly 100% occupied and trainees are regularly attending the classes. The female trainees are also taking admission in core field branches like mechanic diesel, electrician and welder. It was observed that girls were equally interested in studying these technical courses. The girls were comfortable with the ITI infrastructure and schedule. They felt safe around the campus as it was secured and for the considerate management staff.



Interaction with academic staff and students at Govt. Industrial Training Institute Jhalawar

Academic Staff

The teachers engaged in ITIs believed that the students are now being prepared for the industry by getting trainings as per industry requirements, hands on experience on equipment, tools and machines. As a standard practice student are spending 80% time in practical classes and 20% time is devoted in theory classes which is helping them to learn practical aspects of the course and be ready for good job opportunities. Apart from regular theory and practical classes, the students were also getting exposure to "Fire & Safety" and "Occupational Health & First Aid" requirements. The students who were placed in various industries are successful in their respective jobs.



"We always encourage students to learn all aspects of the course. We now have students from the far-flung areas to our institute. Girls are also taking interests in all such courses. We are grateful of CFCL to provide such a well-managed infrastructure; it has solved our problems of maintenance of equipment and the infrastructure. Now we are running several other courses which are suggested by CFCL. After the development, government also provided us other facilities like open gym and equipment which are needed in our institutes."

--A teacher of ITI Jhalawar

Placement Scenario

Placement team of the Company and institute remains in close contact with the regional and the pan India industries and aim to meet their requirement to place students in reputed companies. The placement opportunities for students are increasingly observed in reputed companies. With new equipment and well-trained faculty in place, the ITIs has placed students in various companies in Rajasthan, Haryana, and Gujarat etc. The discussion with one student who is successfully placed in one of the companies expressed gratefulness towards CFCL interventions in ITI Jhalawar. He spoke:

"My father is a farmer and we were in a great need of a job to support the family. In our village, there was no chance to study further after 12th. I heard from a friend of my village that the ITI Jhalawar is offering mechanic course. So, I visited the institute at first. When I entered the campus, I was astonished to see the infrastructure and maintenance of the institute. I, there and then decided to undertake the course and immediately shifted to Jhalawar. The addition of new trades has encouraged many students like me from the neighboring areas to flock to this ITI. As we students are receiving better infrastructure, quality of training, best learning equipment, we are really thankful to ITI and CFCL for providing this opportunity to us. Even, CFCL has also helped me to get this job. They are still in touch with me to know my performance in my job".

----A student from Jhalawar ITI

It is noticeable that female trainees are enrolled in electrical, welding, fitter, mechanic diesel like core courses in these ITIs. They were entrusted and interested to work in various industrial sectors. This was also revealed during the in-depth discussion with girls that they are adopting such courses because there is a high demand for these courses in these industries.

"I am coming from a nearby village. I was, since my childhood, interested to study such thing which the society thinks could be difficult for girls to study. I choose the electrician course as it has tremendous demand in the private market, various industries and I could use the skill for self-employment also in future. However, I am seeking this course for the railway examination."



PROJECT AROGYA – HEALTHCARE AND SANITATION

Need assessment study earlier highlighted the need to address diseases that had threatened many lives of the rural areas. A few reasons of health deterioration among the people were laid under the 'Need Assessment' were: lack of proper infrastructure in the villages (open drainage system, non-availability of toilets in houses), ill-functional health clinics, consumption of intoxicants like tobacco and alcohol by people (especially men in all age groups), unhealthy eating habits, drinking unsafe and unhygienic water, rusted and deteriorated water sources (like hand pump or bore wells) and poor nutrition. This sort of health challenges and gaps requires vigorous interventions to minimize the mortality rate and a healthy future generation. CFCL thus emphasized on health care facilities for the villages through the Project Arogya with following objectives -

- To enhance the health status of school children and community people in order to improve their efficiency in day-to-day working.
- To make specialized services available for the needy of the villages.
- To make aware the rural people of the various health issues and associated problems emerged with the disease.
- To improve the hygiene conditions of the community people,
- Focusing on the adolescent girls to minimize the dropout rate of girls from schools.

Project interventions

CFCL planned the project in a holistic manner to deliver healthcare services in nearby villages, schools, aanganwadi centers and Industrial Training Institutes. Thorough discussions and brainstorming sessions during multiple meetings with stakeholders helped in creating a concrete plan to implement the program. To achieve the objectives, the project was rolled out in a phase manner. The key intervention areas are awareness sessions in villages, nukkad natak, street plays, preventive general health checkup camps, specialized health camps for community, etc.

Impact Assessment

The assessment study was conducted in villages by covering various beneficiaries of Kota and Baran districts of Rajasthan. The evaluation was done to understand the impact of the project on people and their health. The Focus Group Discussion (was conducted with the rural people who were the main beneficiaries of the project.

As per the Need Assessment Study, the rural people were vulnerable towards seasonal diseases and other ailments. The activities were aligned according to the needs of the rural people. The project outcome indicates that it has benefitted the several health aspects of the lives of the people. It has



positively changed the mindset of the people towards better healthy diet and hygiene conditions. The women of the villages were observed well aware of waterborne diseases.

Health camps and awareness sessions

The participants of Focus Group Discussion revealed that the details of activities being conducted in the villages were informed well before so that maximum persons can take benefit of the program. Among the surveyed participants, 75% agreed that they attended the health camps organized by the Company for health check-ups. There were cases of skin diseases among the community and the interventions has provided much relief in skin disease cases as they are getting treatments in specialized health camps. The participants were also aware about the health programs offered by the Government and showed inclination towards various health schemes offered by the Government. The participants also reported that ambulance service is also made available for the community in cases of emergencies.

Awareness sessions on various health issues

Participants revealed that the regular awareness sessions are being organized by CFCL in all nearby villages. Personal health and hygiene sessions were being conducted in schools where students were taught the importance of personal hygiene and sanitation in daily lives. Around 90% of participants agreed that the sessions had an impact on their wards in maintaining their personal hygiene. They reported that their children are now well aware of hand washing before and after meals and defecation. One mother reported during the discussion that:

"My child does not fall sick as he used to be earlier. He washes his hands before and after meals and after using the toilet; he also tells us to do the same. In the pandemic, we were also taking care of washing hands after touching any outdoor surfaces."

----A mother of a ten years old boy.

The awareness of water borne diseases was observed among all the participants. They were also found to be aware the diseases that may occur due to the mosquito bite and hence, demanded to cover the open drainage line in their village. The participants also added that regular fogging under the project has been very useful to them as fogging minimized mosquitoes breeding thus controls instance of the dengue and malaria cases in their village.

Furthermore, the participants were also found to be well aware of other diseases of HIV and Cancer, whereas, prevention of cancer was not possible as opined by the participants. One of the participants said that:



"I was not aware of any such diseases but after attending the sessions I got all my doubts clear. I have a few cases in my own family and now I guide them not to delay in taking treatment from a specialized doctor".

During the discussion, beneficiaries were found having trouble to eradicate tobacco consumption. Especially, all the women participants were found very concerned about this habit as their husbands still smoke regularly.



Village Health Camp



Health checkup at school

PROJECT BHOOMI – ENVIRONMENT SUSTAINABILITY, ANIMAL WELFARE AND SOIL HEALTH

The lack of improved farming system, techniques, lack of improved varieties of seeds, fertilizers and lack of modern farm mechanics and practices are some of the problems farmers are facing in the region. The report also stated that introduction of soil testing to improve productivity was majorly needed by the community. With the aim of addressing the requirements, CFCL planned to launch the Project Bhoomi with soil testing facility, learning of soil quality, fertilizers application according to the soil type, crop rotation and introduction of the new crops.

The impact assessment was conducted in selected villages of Kota District. The focused group discussion with the farmers and field staff provided insights of the project Bhoomi. The lab situated in Gadepan was visited to observe the equipment and other facilities provided for the farmers in the lab.

Project Interventions

Under Project Bhoomi, CFCL initiated sustainable agriculture practices, farmers outreach programmes, soil health management and empowering the farmer community. The sustainable agriculture concept revolves around three key pillars of building a healthy environment, economic

profitability, and social & economic equity. It was about creating an ecosystem to enhance farmer's income without negatively impacting the soil's fertility.

Soil Health Management is an important intervention making agriculture more productive, sustainable and climate resilient. Conserving natural resources, adopting comprehensive soil health management practices, optimizing water use are amongst the other aspects of Soil Health Management. The farmer outreach program helps trigger a change in the farming practices and the soil testing laboratories provide key information on Soil Health Management practices required. The state-of-the-art agriculture development laboratory in Gadepan is equipped to undertake soil and water tests. Based on the analysis, farmers were issued Soil Health Cards which carry crop wise recommendations on nutrients and fertilisers required for a particular farm. The objective is to help farmers understand the correct use of fertilisers, finally delivering improved productivity.

Impact Assessment

The Soil Testing Programme is an initiative to educate farmers about soil fertility and productivity. A study of the soil profile is very much needed by the farming community, since it reveals the surface and the sub-surface characteristics and qualities such as depth, texture, structure, drainage conditions and soil-moisture relationship which, directly affect the plant growth. A study of soil profile supplemented by physical, chemical and biological properties of the soil gives full picture of soil fertility and productivity. As part of the initiative, the farmers were given a soil health card which educates them about the deficiency of major and micro nutrients, as well as provide information on the measures to be taken. Farmers have been able to diversify their crops based on the soil health and adoption of intercropping method which helped in increase in their income. It has been scientifically proven that if farmers follow the steps recommended in soil health card, there would be a substantial improvement in productivity.

The best part of the programme is that farmers received the services at their doorsteps and a soil health card was given to them within 15 days. The soil card provided a detailed analysis of the deficiency of major nutrients such as potassium, nitrogen, phosphorus and micro nutrients such as iron, manganese, zinc, copper and chlorine. The report also states the pH value of soil and its electrical conductivity. The farmers were also able to put up usage of inorganic fertilisers as per recommendation resulting in saving in input cost. Overall, it can be said that the intervention is helping the farmers to minimize the farm input use and maximize the output, thus increase in agriculture income on yearly basis.

PROJECT SAAKAR – RURAL DEVELOPMENT



Project Saakar is the most significant component of the overall development of the rural areas. The project aims to provide accessibility to the remotest villages by connecting with roads and basic infrastructure. CFCL has been making efforts to provide basic infrastructural facilities such as:

- Well-connected roads to schools, colleges, highways, hospitals and remote areas
- Solar Street lights and street lights
- Interlocked pathways in schools and villages
- Toilets in every household and community places
- Construction of gravel roads, boundary walls and drainage lines in villages
- Augmenting drinking water facilities in villages
- Construction of Community shed for crematorium and others
- Construction of parks to increase the aesthetics, community halls for community functions, marriages, etc.



Pond Development at Gadepan village



Community Hall at Khedli Mahadeet



Community Toilet Block at Jiyahedi village



Community Toilet Block at Simliya village

Impact Assessment

The impact assessment study carried out by visiting the nearby villages to conduct observations on each and every development made under the project. The project has benefitted to all community

members residing in nearby villages of Company's plant location. Following are the observations made during the field visit:

- The construction of roads was done with the cement concrete which are durable and sustainable for a longer duration. 100% of the interviewed beneficiaries stated that now it has become easier to commute within the village. During discussion with the Gram panchayat representatives, it was highlighted that prior to the intervention, roads get muddy leading to increase in accident rates during monsoon season. Post construction, travel has become easier and smooth round the year.
- Water bodies like ponds and traditional water sources were restored by de-silting and renovation.
- The construction/ renovation of the community hall was a blessing for the villages, as it provides space for marriage or other communities festivals.

Prior to the implementation of the project, majority of the villagers were not using toilets, community halls and they were facing numerous challenges. The program has successfully reached out to the community members and have benefited through the improved infrastructure.

For Federation of Indian Chambers of Commerce and Industry

Signature:

Name: **UMA SETH**

Designation: **SX. DIRECTOR**

Date: **May 18, 2022**

