



SUPPORTING OUR COMMUNITIES FOR SUSTAINABLE DEVELOPMENT

SEIL ENERGY INDIA LIMITED
CSR REPORT 2023-2024

SEIL Energy India Limited is dedicated to uplifting communities by enhancing healthcare access, supporting quality education with resources and capacity enhancement, providing skill development, and promoting decarbonization solutions for affordable, clean power. The company also drives economic growth by creating decent work opportunities and enables sustainable livelihoods, ensuring good health and a prosperous future for all.

CONTENTS

CSR: COMMUNITY 01	4
SDG GOALS 02	5
HEALTHCARE 03	7
EDUCATION 04	10
SKILL AND ENTREPRENEURSHIP DEVELOPMENT 05	12
CLEAN ENERGY 06	14
ENVIRONMENTAL SUSTAINABILITY 07	15
CASE STUDY ON AUDIOMETRY 08	16
PROMOTING EXCELLENCE IN 09 CARBON CAPTURE RESEARCH & AWARDS AND RECOGNITION	19

EMPOWERING
AND SUPPORTING
COMMUNITIES FOR
**SUSTAINABLE
DEVELOPMENT**

As a responsible independent power producer, we are committed to caring for our communities and operating sustainably at our supercritical power plants. Sustainability is at the heart of all our activities in SEIL. We believe that our people drive us to play a role in creating a more sustainable future.

 **SDG Goals
Covered**

Goal 3 – Good Health and Well-being

Goal 4 – Quality Education

Goal 5 – Gender Equality

Goal 6 – Clean Water and Sanitation

Goal 7 – Affordable and Clean Energy

Goal 8 – Decent Work and Economic Growth

Goal 15 – Life on Land

Impact Created

1,62,000
(APPROX.)

Lives Touched



Goal 3



Goal 4



Goal 5



Goal 6



Goal 7



Goal 8



Goal 15



Our Corporate Social Responsibility (CSR) initiatives are intended and implemented to have a positive impact on the communities. We at SEIL implement various initiatives addressing the needs of the community whilst taking care of the environment. By aligning our activities with the United Nations Sustainable Development Goals (UN SDGs), SEIL's CSR initiatives are gradually bringing about long-term positive change.





Goal 3

Good Health and well-being



Provided free consultations to 9,026 patients



Free medicines were provided to 8,392 persons



Free lab investigations of 1,526 persons

HEALTHCARE

Ensure healthy lives and promote well-being for all.

The Health and Wellness Centre

Health and Wellness Centre is equipped with the facility of medical consultation, laboratory services and medicine facilities for the community. The centre is also equipped with provision for audio-visual consultation with specialist doctors.

This initiative has improved accessibility to quality and affordable healthcare by providing free consultation to 9,026 patients & free specialty consultations to 562 patients. Free medicines were provided to 8,392 persons and free lab investigations for 1,526 persons. As part of the community outreach programme in the community, social health education sensitisation training

was conducted for 2,365 community members.

Non-communicable disease (NCD) screening was conducted for 1,642 people.

Vision Screenings

For early detection of preventable blindness, eye screening camps were organised in surrounding communities. Needy persons were provided with free spectacles. Complicated cases were referred to specialist Charitable hospitals for further treatment. Eye screening was done for around 12,924 persons, and 2,434 community members were provided free spectacles.





Mobile Medical Unit (MMU) services

Our MMU service provides women, children, the elderly, and those with disabilities access to primary healthcare in their own villages. We facilitate access by identifying medical needs by setting up health screening camps in remote villages and panchayats. We have organised 216 camps and treated 11,712 patients. Doorstep medical care was provided to bedridden and accident-affected patients. A total of 2,670 patients were referred to government health centers for further care. Major cases that were treated included anaemia (2,203 cases), hypertension (1,520 cases), underweight (3,379 cases), and diabetes (515 cases)."

Emergency Ambulance Services

As part of Community emergency health services, ambulance services were provided to shift the patients from nearby communities to the nearest hospitals.

In FY 2023-24, Ambulance services were

provided for 92 health emergency cases like road accidents, labour pains, snake bites, burns, etc.

Audiometry Services

As part of the Audiometry project, screening was done for people with ear problems and needy people were provided the hearing aids. 11,500 persons were screened in two phases and Hearing Aids were provided to 860 persons.

During the screening it was observed that in around 606 cases hearing loss was due to age related factors. 155 cases of Tinnitus (constant sound in ears) were observed in the 50+ age group, which may be attributed to multiple factors like poor food, low water intake, and age-related factors. These cases were further referred to government hospitals. 120 children had poor hearing ability due to accumulation of heavy ear wax / infections caused by bathing in muddy / dirty water of ponds and canals.



Hearing Aids were provided to 860 patients.



Organised 216 camps and treated 11,712 patients.



Eye screening was done for 12,924 persons. 2,434 community members were provided spectacles.



Medical equipment for government health centres:

Various Medical equipment like Haematology Analyser, Patient Monitor, ECG, Medical Refrigerator, Foetal Monitor, were provided to 4 Government Medical Health Centres at the request of the District Health and Medical Officer.

Nutrition Support to TB Patients:

500 food baskets were provided to 500 TB Patients through the District TB Control Office, Nellore to support the nutritious food support programme "Nikshay Mitra".

Medical Equipment Support to Charitable Institutions:

Indian Red Cross Society Cancer Hospital was provided with Mammography machine, Ultrasound Machine and Harmonic Scalpel machine for screening and treatment of cancer patients.

Mammography machine provided: **370** Persons were screened.

Ultrasound machine provided: **2,507** Persons were screened.

Harmonic Scalpel machine provided: **841** Surgeries were conducted.

St. Joseph Hospital was provided with six Dialysis machines to help kidney patients from underprivileged families with affordable lifesaving therapy.



SDG Goal 4

Quality Education



242 School children were provided conveyance



1851 students of **36** High Schools were provided with evening snacks for 10th class exam preparation.



EDUCATION

Ensure inclusive and equitable quality education.

Quality Education in Government Schools

3922 students have been identified in classes IV–IX for quality education through the Learning Improvement Programme in 20 Government Schools in SPSR Nellore district. The objective is to ensure age and grade appropriate learning among the students. Additionally, STEM labs, do-it-yourself kits and School library books have been provided in these schools. Remedial classes have also



Anganwadi Center



Transforming Pre-primary Education

The aim is to ensure 100 per cent enrolment and improve pre-primary education in 8 Anganwadi centres under the early childhood education component. Parents' participation is being ensured in the child learning process. The Anganwadi centers have also been equipped with teaching and learning materials, and Anganwadi staff are being trained in pedagogy and the use of play materials for teaching.



**Total Children
benefitted:
115 Children**



Career Counselling

Students of classes IX to XII of 6 Government Schools / Junior Colleges were provided training in career counselling sessions, preparation for entrance exams, CV building and soft skills

**Students : 518
Schools Covered : 6**

been organised in 4 villages for after school hour learning, covering 310 students in classes I to X.

Preventing School Dropouts

We provide conveyance to the government school students from our communities to prevent dropouts, focusing on the improvement of girl child education. We also provide assistance to students giving board examinations. A total of 242 School children were provided with conveyance facilities. 1851 students of 36 High Schools were provided with evening snacks for 10th class exam preparation.

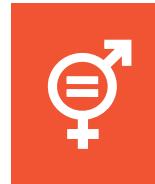


Skill Training for Youth

Training of Youth for employability and Self-employment development in IT related fields.



Youth Trained
397



Goal 5: Gender Equality

Goal 8: Decent Work and Economic Growth

SKILL AND ENTREPRENEURSHIP DEVELOPMENT

Training for Women

Training of Women for income generation through tailoring, advanced tailoring, and bag making.



Women Trained 130





SEIL has organised various skill and entrepreneurship development programmes for women and youth empowerment. Training has been imparted in Tailoring, Jute works, IT Courses & other skills. These have enabled community members, particularly women, to be self-reliant adding to family income and contributing to the overall development of the area.



Veterinary Camps

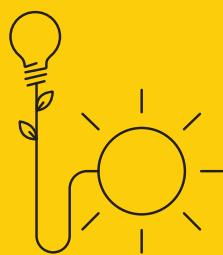
Veterinary camps were organised in 6 surrounding villages covering 3580 Cows, Buffalo, Sheep, Goats and Poultry. Government veterinary department doctors and Para vet team supported the camps. Various types of medication was provided for the treatment of diseased cattle and multivitamin medicines were provided for their growth.

Benefiting 215 Farmers



**Goal 7****Affordable and
Clean Energy**

CLEAN ENERGY

**Solar Street Lights in
Nelaturupalem****70** Solar street lights in
Fishermen Hamlet**732** Households
benefittedImproved mobility and
safety of villagersReduction in electricity bill
for the Gram Panchayat**1KW Off- grid in Anganwadi Centres**

To promote Solar Energy usage in the communities as part of environment sustainability, 1 KW Roof top Solar panels were installed in 14 Anganwadi centres to provide free electricity to the centres thus encouraging the concept of clean energy promotion. Around 410 children and 170 pregnant women and lactating mothers were benefitted from this initiative.

On-Grid Solar Panels

100 Kwh of On-grid Solar power installed at Vikram Simhapuri University, Nellore and 150 kWh of on-grid installed at Indian Red Cross Cancer Hospital, Nellore for the benefit of the community.

Solar Water Heaters

11 Solar Water heaters have been installed at Girls Hostel, Vikram Simhapuri University, Nellore and 4 numbers at Indian Red Cross Society. Each solar water heater has a capacity of generating 500 lts of hot water helping the residents of both the institutions.


Goal 15
Life on Land

ENVIRONMENTAL SUSTAINABILITY



Total Sapling Planted:
16,000 Saplings



Total Area of Plantation:
40 Acres of land

Variety of saplings:
Ashoka tree, Arjun, Bel Bamboo, Kari Patta, Neem, Jamun etc..


Project – 'Harit'

As part of Project Harit, SEIL Energy India Limited proudly conducted avenue plantation drives at Vikram Simhapuri University, promoting a greener and more sustainable future.

Our team undertook comprehensive preparations at the site, including:

- Enhancing soil fertility with additional topsoil and coco peat
- Applying essential fertilizers for healthy growth
- Planting high-quality saplings
- Preparing the soil by removing bushes, levelling, and creating pits

To ensure efficient watering, a drip irrigation system was installed, providing the new saplings with the best chance to thrive.

Project Harit is our commitment to environmental stewardship.

— CSR: CASE STUDY ON AUDIOMETRY

HEARING LOSS... EARLY DETECTION IS KEY!



Hearing loss is a widespread challenge, affecting millions of people worldwide. As per WHO estimates, more than 1.5 billion people (nearly 20% of the global population) live with various degrees of hearing loss. In India, there are approximately 63 million people who suffer from significant auditory impairment. In Andhra Pradesh, the prevalence is higher than the national average with seven among 100 people suffering from hearing loss.



Causes Of Hearing loss

- Cerumen impaction (impacted ear wax)
- Trauma to the ear or head
- Loud noise/loud sounds
- Ototoxic medicines
- Work related ototoxic chemicals
- Nutritional deficiencies
- Viral infections and other ear conditions
- Delayed onset or progressive genetic hearing loss

Early detection and intervention are crucial to manage hearing loss effectively. Several factors can contribute to hearing loss, including earwax buildup, exposure to loud noise, ear infections and aging. Regular hearing screenings are essential especially for infants and older adults. Early detection can help prevent hearing loss from worsening and improve communication abilities. Hearing Aids can significantly improve hearing for many people. Hearing loss rehabilitation also includes training in using hearing aids, speech therapy and counselling. Identifying the root causes of hearing loss is crucial in formulating effective interventions. From cerumen impaction to exposure to loud noises and ototoxic medications, the triggers

are diverse and multifaceted. Moreover, demographic-specific risk groups, including newborns, children, and individuals exposed to occupational hazards, require tailored screening and support mechanisms.



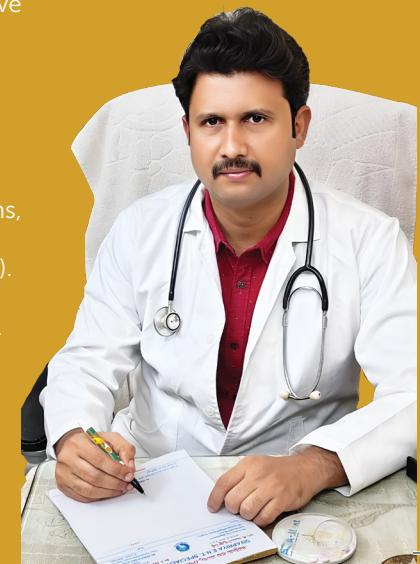
DOCTOR'S VOICE

"There are three types of hearing loss: 1) Conductive hearing loss 2) Sensorineural hearing loss 3) Mixed hearing loss. Systematic screening is required for detection of hearing loss and related ear diseases in those who are most at risk including new-born babies and infants and pre-school and school-age children, etc. Hearing assessment and ear examination can be conducted in clinical and community settings.

Tools such as the 'hearWHO' app and other technology-based solutions make it possible to screen for ear diseases and hearing loss with limited training and resources. Once hearing loss is identified, it is essential that it is addressed as early as possible and in an appropriate manner, to mitigate any adverse impact. Rehabilitation helps them to participate in education, work, recreation and meaningful roles, e.g. in their families or communities throughout their lives. Interventions for rehabilitation for people with hearing loss include:

- The provision of, and training in the use of, hearing technologies (e.g. hearing aids, cochlear implants and middle ear implants).
- Speech and language therapy to enhance perceptive skills and develop communication and linguistic abilities; training in the use of sign language and other means of sensory substitution (e.g. speech reading, use of print on palm, Tadoma, signed communication).
- The provision of hearing assistive technology, and services (e.g. frequency modulation and loop systems, alerting devices, telecommunication devices, captioning services and sign language interpretation). counselling, training and support to enhance engagement in education, work and community life.

Dr. T Suman Krishna Reddy
MS (ENT)





"I have a hearing problem as I am a diabetic. The Doctor suggested me to use a hearing aid. I am a fruit vendor. So, I couldn't afford to buy a hearing instrument. Due to my deafness, I am losing my business as I can't hear my customers' voices properly. I heard that free audiometry tests are being conducted by SEIL Energy in our village and I attended a camp recently. After testing, Raga Pranita Speech and Hearing Centre said that I have 70% hearing loss. SEIL provided a hearing aid free of cost. They have provided training to operate the instrument. Now I can hear everything as a normal person and my business is picking up. Thank you SEIL for the new lease of life to me and for providing hope to my family".

Sheikh Rahantullah
72 years, S T Colony, Muthukuru village, Muthukuru Mandal



Through comprehensive audiometry camps conducted in Muthukur and TP Gudur Mandals, Raga Pranita Speech and Hearing Centre, an NGO, uncovered a spectrum of issues affecting diverse age groups.

Elderly individuals reported symptoms ranging from ear discharge to tinnitus, while children faced ear infections and adenoid hypertrophy due to swimming in muddy waters. As part of its Social Responsibility (CSR), SEIL Energy India Limited has collaborated with Raga Pranita Speech and Hearing Centre and supported the NGO in conducting an extensive survey to identify the key factors that are causing hearing loss and to support the community with regular screening. Over the past two years, SEIL has conducted audiometry camps in 109 villages in both the Mandals, screening around 16,350 people in three phases with the help of the above NGO.

During these camps, the majority of the community members reported symptoms

of ear discharge and decreased hearing. Most of the elderly who experienced hearing problems due to age were found to be suffering from tinnitus (a continuous buzzing sound in their ears), and hearing loss levels ranged from 60% to 90%. 164 cases of ear perforation were identified. 118 children were found to have ear infections due to swimming in muddy water, leading to Adenoid hypertrophy - an obstructive condition caused by enlarged adenoids, resulting in nasal blockage and snoring. Throat infections were also commonly observed among them.

Distribution of Hearing Aids:
SEIL Energy India Limited has distributed 1,069 Hearing Aids to the needy in Muthukur and TP Gudur Mandals. Among them, 90% are elderly people. The beneficiaries were also trained in using and maintaining the aids. Furthermore, awareness sessions were organised in the villages to educate individuals on ear care during the screening camps.



"I developed a hearing problem during my pregnancy, and it got worse after my child's birth. I couldn't afford to undergo surgery or buy a hearing instrument as directed by the Doctor as we are daily wage earners. I was in depression as I became deaf at a young age. Recently, I got to know that SEIL is conducting free audiometry tests and providing hearing aids in our village. I got tested and received a Hearing Aid from them. Now I can hear properly. I am thankful to SEIL Energy for supporting us with the distribution of free hearing instruments. It has transformed my life".

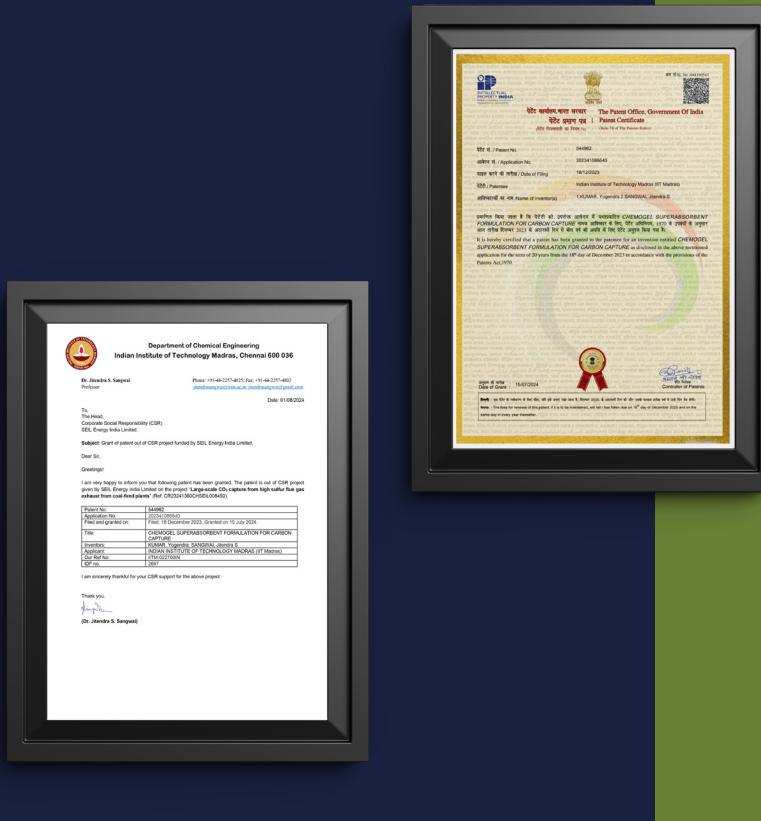
- Duvvur Bhagyamma
44 years, Tallapudi village, Muthukuru Mandal

Promoting Excellence in Carbon Capture Research

SEIL's CSR initiative supports groundbreaking research at IIT-Madras, leading to a patented innovation in carbon capture technology. The project has developed **Chemogel**, a revolutionary nano-particle-based solvent, which outperforms traditional amine-based solvents in lab tests, showcasing:

- Enhanced carbon capture efficiency
- Improved regeneration efficiency
- Higher operating temperatures
- Increased SO₂ tolerance

The next phase involves scaling up the technology through a pilot project, aiming to validate Chemogel's performance under real-world operating conditions. This breakthrough has the potential to significantly impact industrial carbon capture processes.



AWARDS AND RECOGNITIONS



SEIL has been bestowed with the **best CSR Impact Award** by **UBS Forums** for the company's successful implementation of various 'Decarbonisation' initiatives including plantation drives, installation of solar streetlights, solar rooftop systems and solar heaters, etc.

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