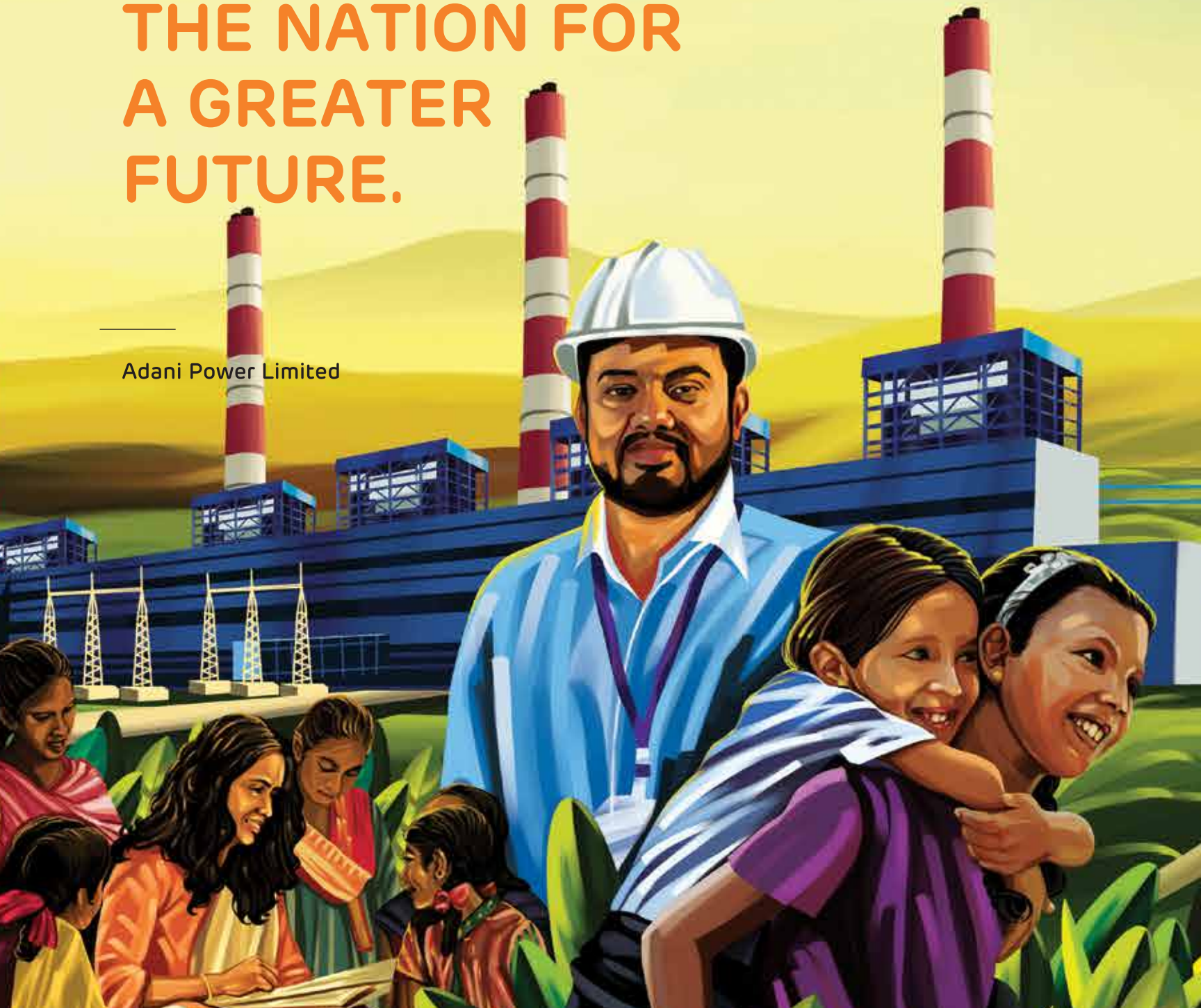


# EMPOWERING THE NATION FOR A GREATER FUTURE.

Adani Power Limited





# Growth, the way it is meant to be.

Growth, to us, isn't about the businesses we're involved in. Growth is about the real impact we can create. It's about the lives we can touch, the communities we can nourish, the future we can inspire. With our sheer size of operations, we have been able to reach out to the remotest of geographies with ease. Be it power transmission or solar energy generation or agri logistics, we go for large scale executions that benefits millions of Indians. We are proud of this quality of our operations, which we have consciously extended beyond our businesses, to impact healthcare, education, employment generation and creation of sustainable livelihoods for the communities that deserve them. It is the belief that growth can lead to goodness, which inspires us and drives us.

## Vision

To be a world class leader in businesses that enrich lives and contribute to nations in building infrastructure through sustainable value creation.





# ADANI POWER BUSINESS



## A LEADER IN THE PRIVATE POWER SECTOR OF INDIA

- With the inception of its first unit at Mundra in 2006, Adani Power Limited entered the power sector of India
- Today, Adani Power Limited is India's leading private power company. Adani Power Limited has already installed 12,410 MW of thermal power with more projects under development
- All this has been possible due to our passionate, committed and result-oriented team, performing

exceptionally in all facets of the project's construction and commissioning. Strong emphasis has been laid on developing world class systems and practices, supported by state-of-the-art IT infrastructure to bring efficiency and sustainability into the system and strengthening the foundations of Adani Power Limited



# OUR LANDMARK ACHIEVEMENTS



- Mundra power plant is the world's largest private single location coal-based power project
- Mundra (Phase-III) is the first coal-based thermal power project in the world to be granted carbon credits by UNFCCC
- Tiroda (Phase-I) is the second coal-based thermal power project in the world to be registered for CDM with UNFCCC
- Adani Power Limited was the first in the world to develop a methodology for High Voltage Direct Current (HVDC) power transmission lines under CDM and get it approved with UNFCCC
- It installed the longest and largest private HVDC transmission system in the world in less than 24 months
- Mundra (4620 MW) power plant consists of 9 units developed in a very compact area, exhibiting the lowest area taken up among other coal-based power plant installations in the country
- Unit 5 of Mundra TPP (660 MW) was the first super-critical unit to be synchronised in India. The unit was synchronised within 36 months of its inception
- Unit 7 of Mundra TPP (660 MW) created national record by running continuously for 444 days.



# MUNDRA



## ADANI POWER (MUNDRA) LIMITED, MUNDRA, GUJARAT (4620 MW)

### A flagship experience

- The Mundra power project was built in four phases of 2 x 330 MW, 2 x 330 MW, 2 x 660 MW super-critical, and 3 x 660 MW super-critical units. The 1,980 MW Phase-IV also incorporates Flue Gas Desulphurisers to reduce its SOx emissions
- Mundra plant sets global benchmarks for power producers in terms of size, efficiency and sustainability. Despite its enormous capacity, the facility stands unique in the world when compared on basis of area usage per MW





TIRODA



**ADANI POWER MAHARASHTRA LIMITED,  
TIRODA, MAHARASHTRA (3300 MW)**

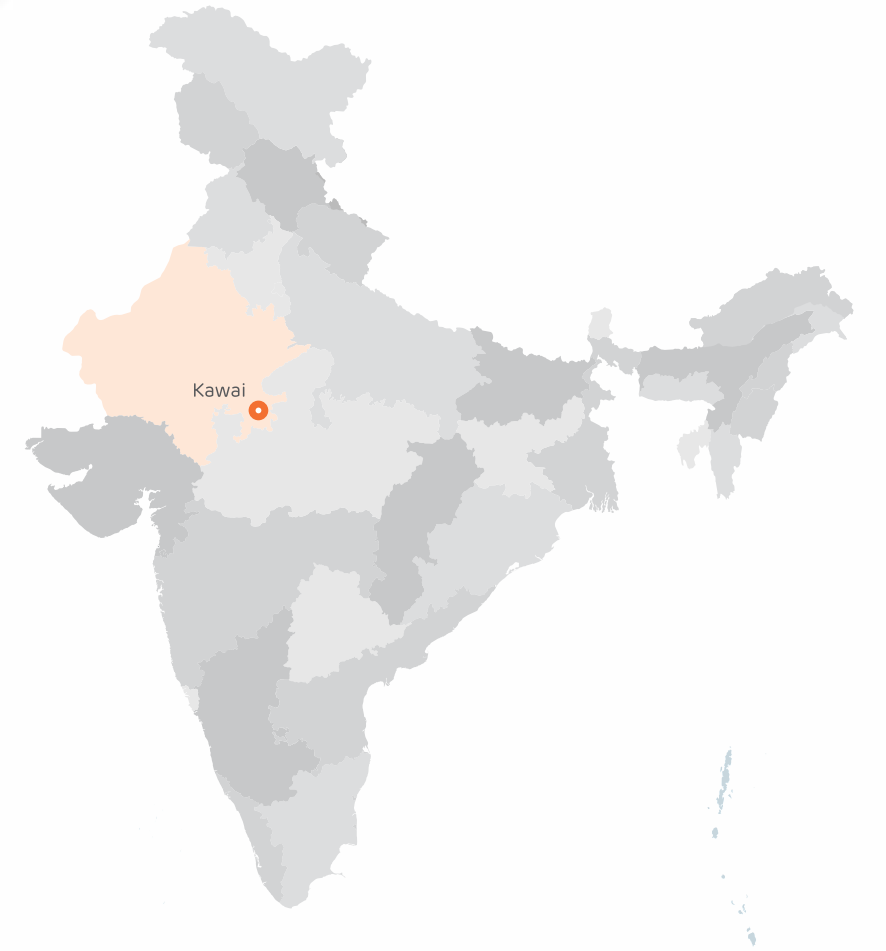
*Another feather in the cap*

- With a total capacity of 3300 MW, Tiroda comprises 5 x 660 MW units. All units at this location are made of super-critical technology, and drive efficient coal-based power generation
- Tiroda uses the latest technology for environment management and has been registered under CDM by UNFCCC
- Tiroda operates a unique Rail Under Rail system which is the first of its kind in the power sector



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KAWAI



**ADANI POWER RAJASTHAN LIMITED,  
KAWAI, RAJASTHAN (1320 MW)**

*A beacon of inspiration*

- Kawai has a total installed capacity of 1320 MW and has the capacity to expand in the future. Kawai comprises 2 x 660 MW units of super-critical technology
- For immediate connectivity, Kawai has a 1500 m long air strip and uses state-of-the-art technology for environment management
- The powerplant was recently awarded with five star rating and the Sword of Honour in 2019 which is considered to be highest in its category of safety.



## UDUPI



### UDUPI POWER CORPORATION LIMITED, UDUPI, KARNATAKA (1200 MW)

Growing inorganically

- Udupi Power Corporation Limited is a 2 x 600 MW imported coal-based power project in the Udupi district of Karnataka
- UPCL is the first Independent Power Project (IPP) in the country using 100% imported coal as fuel
- UPCL was awarded the Gold Shield award from the Ministry of Power, Government of India in

FY 2010-11 for early completion of the thermal power project (Unit-1)

- UPCL places safety measures at its very core. The power plant was recently awarded with five-star rating and the Sword of Honor in 2020 which is considered to be highest in its category of Safety.



## RAIKHEDA



RAIPUR ENERGEN LIMITED,  
RAIKHEDA, CHHATTISGARH (1370 MW)  
*Growing inorganically*

- Raipur Energen Limited (formerly GMR Chhattisgarh Energy Ltd.) is a recent acquisition by Adani Power
- Raikheda plant has a totalled installed capacity of 1370 MW comprising of 2 x 685 MW super-critical units



## RAIGARH



### RAIGARH ENERGY GENERATION LIMITED, RAIGARH, CHHATTISGARH (600 MW)

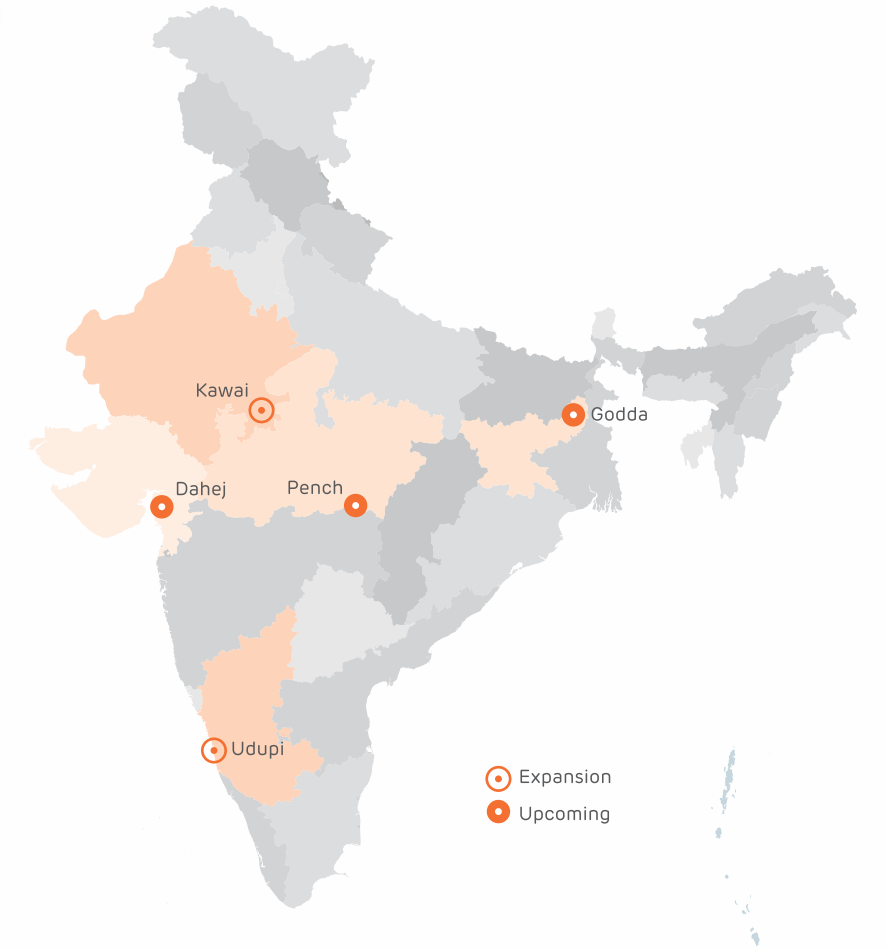
#### Growing inorganically

- Raigarh Energy Generation Limited (formerly Korba West Power Company Ltd.) is a recent acquisition by Adani Power
- Raigarh plant has a totalled installed capacity of 600 MW comprising of 1 x 600 MW unit



# FUTURE PROJECTS

MULTIPLE PROJECTS  
IN PLANNING



## A journey to realise one vision

- Adani Power Limited is contemplating expansion of existing plants at Udupi and Kawai and greenfield project at Dahej in Gujarat besides the ongoing construction works of 2 x 800 MW thermal power project at Godda, Jharkhand. In addition to these, APL is also

planning for a 1320 MW greenfield power project at Pench in Madhya Pradesh

- All these projects will be leveraging the latest technological developments in the industry with the installation of state-of-the-art super-critical / ultra super-critical units





# PROJECT EXECUTION CAPABILITIES

## Executing projects with efficiency

- Over the years, Adani Infra (India) Limited has built strong internal capabilities in engineering, procurement, project management, project execution and commissioning. It has continually evolved in the area of project implementation by adopting the world's best practices
- Adani Infra relies on value engineering concepts, driving ideas, executing them, and bringing efficiency into the system
- Category-based sourcing provides an edge when technical competencies in the commercial arena are developed
- Adani Infra believes in delivering quality results which are cost and time efficient



# OPERATIONS AND MAINTENANCE



## Increasing product life cycle

- Operations and Maintenance (O&M) plays a key role in ensuring the smooth functioning of the grid and in providing reliable and uninterrupted quality power supply to our consumers
- By adopting super-critical technology units, energy efficiency has been achieved. Grid blackouts are avoided by complying with the grid code
- Installation of technologically advanced emission control systems such as Flue Gas

Desulphurisation, Electrostatic Precipitators and SOx/NOx Reduction Burners, in addition to monitoring ambient noise, air quality and emissions at plant locations has aided in preservation of the local ecosystem

- For enhancing its competency, O&M imparts expert training to its employees along with practicing mechanised and automated housekeeping methods



# QUALITY, HEALTH, SAFETY & ENVIRONMENT



## Adopting the best industry practices

Adani Power is committed to achieving excellence in all areas. Having a strong system-oriented culture, four of its plant locations, i.e., Mundra, Tiroda, Kawai and Udupi, are certified with Integrated Management System (IMS) consisting of Quality Management System (ISO 9001:2015), Environmental Management System (ISO 14001:2015) and Occupational Health & Safety Management System (ISO 45001:2018).

Demonstrating their passion for energy conservation, these four locations are also certified with Energy Management System (ISO 50001:2018). All certifications are accredited by

renowned companies like TuV Nord in Germany and Bureau Veritas in France. Further, by adopting the best practices from the Total Quality Management (TQM) model, the plant locations at Mundra, Tiroda, Kawai and Udupi have implemented and achieved 5S (Workplace Management System) certification jointly offered by Japanese Union of Scientists and Engineers (JUSE) and Quality Circle Forum of India (QCFI).

To make the process more compact, six-sigma projects have been implemented in Mundra, Tiroda, Kawai and Udupi for achieving better results.



# OUR REAL ASSETS



## The people power

At Adani, people are our competitive advantage. It is our employees who create extraordinary results for our customers and stakeholders on a continual basis. We pride ourselves on our people management processes that helps us meet commitments consistently. Through acquiring the right talent, creating a motivating work environment, empowering employees to be pro-active, encouraging informed risk taking, providing growth opportunities and developing future leaders, we have built a strong team culture. At Adani, our people always come first, profits follow naturally. Training and development of human resources are our real assets. The people power plays an important role in the effective management of a skilled workforce. We are committed to developing our people's dexterity and offer a wide range of

opportunities to help them build on their existing technical, managerial, and leadership skills. A continuous process of training and evaluation of training effectiveness is followed across all our people, processes, and throughout the talent management processes of the employee life cycle. The focus of learning and development activities is to:

1. Align learning with the business
2. Integrate learning with HR and other business processes
3. Create a learning culture
4. Provide appropriate learning options
5. Manage learning effectively
6. Support application of skills in the workplace
7. Evaluate learning and development



# ADANI POWER TRAINING AND RESEARCH INSTITUTE (APTRI)

## Empowering Human Capital

Adani Power Training and Research Institute (APTRI) was launched to provide training support to projects and to the generation, transmission and distribution of business development, in addition to techno-commercial, finance, human resource and other services. APTRI is a centre of excellence and knowledge, built on the deep, rich and diverse experience of senior experts from top national and international organisations. The institute has tied-up with several reputed training providers to train employees on power generation, transmission and other related areas. The institute has been accredited by the Central Electricity Authority (CEA). APTRI is a permanent member of Indian Society for Training and Development (ISTD), and is actively associated with activities and events at International Association for Continuous Education and Training (IACET), Institution of Electrical and Electronic Engineering (IEEE), Society for HR Management (SHRM), and Conference Internationale des Grandes Reseaux Electriques France (CIGRE).

Established in 2012, APTRI extended its service beyond Adani Power to train engineers from Power Utilities like CLP, DVC, TSPL, GUVNL, RVUNL, MPPGCL, PSPCL and further expanding its reach beyond Indian shores to serve power utilities of Zimbabwe, Oman, Bangladesh and Sri Lanka. Today APTRI has –

- More than 250 courses related to Power Generation, Transmission and Distribution including Renewables.
- It has trained more than 600 fresh engineers and certified them to operate and maintain power assets.
- It has provided more than 178000 of training man-days of refresher programs for power professionals.
- It has centers of excellence at 6 locations, well equipped with simulators of 330, 600, 660 and 685 MW for operators training, and Electrical/C&I/P&M laboratories, Mechanical Workshops for training of maintenance engineers.
- Rich collection of Case studies, Training videos and Books in its Resource Centre.
- APTRI e-learning portal hosts in-house developed e-learning courses which is available to participants 24x7 for learning.

In its quest to explore new possibilities in power sector, APTRI has collaborated with institutions like CSIR, IIT, Tel Aviv University to research areas of application like micro algae harvesting for carbon sequestering, fly ash utilization and use of drone technology in inspection & condition monitoring.



# ADANI FOUNDATION

Goodness is a practice that ought to be ingrained in those who truly believe in it. We, at Adani, leave no stone unturned to bring happiness and livelihood at every step of our journey towards Nation Building. The Adani Group invests about 2% of its total profit in social initiatives through its CSR arm, Adani Foundation, with an aim to lead the wave of goodness at grassroots level. It exhibits the humane, compassionate and benevolent side of the company. Adani Foundation is touching more than 3.7 million lives in 2410 villages across 18 states through its work in Education, Community Health, Community Infrastructure Development and Sustainable Livelihood Development.

## 1. Education

Adani Vidya Mandir, Ahmedabad (AVMA) is the first cost-free school in India to receive NABET Accreditation by the Quality Council of India, a benchmark in the field of education. Adani Public School, Mundra is now the first school in Kutch and Saurashtra region to receive the NABET accreditation. Adani Vidya Mandir in Ahmedabad, Bhadreshwar and Surguja are schools that provide cost-free education to about 3000 students annually. Adani Public School in Mundra, Adani Vidyalayain Tirora and Kawai, Adani DAV Public School in Dhamra and Navchetan Vidyalaya in Hazira provide subsidized education to students. The Foundation has started special initiatives such as Gyanodaya for Digital learning (Godda, Jharkhand), Utthan for strengthening fundamentals (Pan India) and Amchi Shala for reviving government schools (Maharashtra)

## 2. Community Health

Adani Foundation firmly believes that ensuring and improving the overall healthcare of the citizens can directly result in the economic growth of the nation. There are 12 rural clinics across the nation that provide timely services to around 33,000 patients annually. The Foundation also operates Mobile Health Care Units (MHCUs), providing on-the-spot medical assistance to patients in remote locations. At present, the MHCUs attend to 2L people annually, on average. Health camps are organized at regular intervals which are seasonal/need-based to meet the specific needs of the community. The Foundation also provides health check-up cards to senior citizens from socio-economically marginalized sections under Vadil Swasthya Yojana. The green card is given to those with a family income of less than Rs. 2 lakh per annum to avail free healthcare services, while those with family income of more than Rs. 2 lakh per annum are given blue cards to avail healthcare services at the Adani Hospitals.

**Gujarat Adani Institute of Medical Sciences (GAIMS) and G.K. General Hospital (GKGH):** GAIMS is the first Public-Private-Partnership (PPP) endeavor between the Government of Gujarat and the Adani Education & Research Foundation. G. K. General Hospital (GKGH, attached teaching hospital) is the only multi-specialty modern teaching district hospital in Kutch. GKGH is often the last ray of hope for thousands of patients who come here from different parts of the district. It provides treatment to all socio-economic classes of patients, particularly the poorest of poor patients. On average, 1,700 patients take medical benefits from the hospital every day.

## 3. Sustainable Livelihood Development

Adani Foundation aims at promoting the growth and development of marginalized sections by promoting livelihood security. The programs span from skilling to offering support in market linkages to the creation of Self-Help Groups (SHGs) to the adoption of new and innovative techniques in crop production, and animal husbandry. It also supports bringing alternate livelihood to fishermen community. The Foundation is empowering women through creating over 200 SHGs, covering over 2000 women. These SHGs are undertaking various income-generating activities, ensuring additional income to families.

## 4. Community Infrastructure Development

Community infrastructure bears a direct impact on the standard of living and the micro economy of the community. Adani Foundation has worked towards improving the infrastructure in numerous rural and migrant populations.

**Water Conservation:** The Foundation has constructed 21 check dams, revived 374 farm ponds and deepened several streams across various geographies. This has helped boost the water storage capacity to 7871785 M3 and it has brought 18,200 acres of land under irrigation.

**SuPoshan:** SuPoshan is targeted towards breaking the cycle of anemia in women and malnourishment in children below the age of 5 years. SuPoshan Sanginis, who are from the community, ensure the right medical and social support to encourage mothers to adopt a healthy lifestyle. SuPoshan is spread across 12 states in more than 3.25 lakh households.

**Saksham:** Saksham or Adani Skill Development Programme (ASDC) is a skilling program that focuses on bridging the skill gap among the youth, make them employable and thus, contribute towards nation-building. The program is in line with the Government of India's Skill India Mission. Saksham has partnered with the National Skill Development Corporation (NSDC) and has trained more than 67600 plus young persons. Its innovative courses include simulator-based crane operation, 3D printing and welding through Augmented Reality. Currently, there are more than 65 Saksham centers operational across eight states in India offering skill training in 45 trades.

**Swachhagraha:** Swachhagraha, inspired by one of the largest pre-independent mass movements in India – 'Satyagraha', is aimed at inspiring people to get involved and take action towards 'Creating a Culture of Cleanliness'. The program focuses on four key themes, namely, Waste Management and Littering, Sanitation, Personal Hygiene and Toilet Etiquettes.

**Udaan:** Udaan encourages young minds to develop an interest in all sorts of enterprises and to encourage them to dream big in life. Adani Foundation takes students on an exposure visit to their power plants and ports, where the students get an opportunity to experience the scale of the businesses. More than 3.48L students and teachers from 5200 institutions have participated in Project Udaan.







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### **Raigarh**

#### **Raigarh Energy Generation Ltd**

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