




Our Gujarat's Heritage-Environment Education Bus

A Project by
Center for Environment Education (CEE) & British Gas (BG) India

Half Yearly Report (March – August, 2004)

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Environment Education Bus-A Brief

Our Gujarat's Heritage-Environment Education Bus is joint project by Centre for Environment Education (CEE) and British Gas (BG) India.

Environment Education Bus (EE Bus) will be a mobile resource centre to be used by youth volunteers in Surat, Bharuch, Ankleshwar and Ahmedabad to create awareness among school children on environmental issues affecting them and a broad understanding of the environment resources of Gujarat.

The environment bus will have a broader reach and mobility to showcase environmental resources and concerns through various media such as panel displays, activities, interactive models, films, slide shows, puppet shows, role-plays and print material like pamphlets, brochures, labels, postcards etc.

Exterior of Bus- The exterior of Environment Bus will feature people and places (Cultural heritage) of Gujarat on one side and natural heritage on the other side highlighting the richness in terms of biodiversity. Exterior will have lively pictorial display of people and places and visuals of biodiversity of Gujarat. The third side of the bus will open as a scaffold for performing stage and puppet shows and also for screening short films and documentaries. The front side will have the logos of CEE, British Gas (BG) and Gujarat Gas (GGCL).

Panels- Three panels on each issue with solutions, best practices and "what I can do" which will have an interactive element with push buttons where students can interact and vote for what they will do for the environment.

Interactive Models- Display of interactive working models like solar cookers, ambient air samplers along with incomplete models (mechanical) which will give the children a chance to understand, identify and resolve the concept of the model.

Kiosks & AV Equipments - Interaction on information kiosks and AV Equipments will provide more specific and detailed information about themes on the panels.

Puppet shows- Puppet shows on latest issues of concerns to raise awareness and educate the schoolchildren and community through folk art.

Role-plays- Role plays on current issues of environment concerns to raise awareness and educate the school children through traditional folk media on environment issues.

Educator's Kits- Educator's kits will contain activity kits for school children, pamphlets, brochures, labels & postcards.

Films and slide shows- Screening of short films & documentaries and slide shows on various environmental issues to educate school children and community about various best practices and community initiative towards environment.

Portal- Web based information and instructions system portal for the school children where they can get maximum information on environmental issues through interaction on the web.

Themes – compilation of the themes are based on the workshops inputs, reports and websites.

- Biodiversity
- Our water resources
- Air around us
- Our land
- Our Energy resources

Project Development and Implementation

The project is divided into two phases depending on the activities conducted to develop the communication material, designing and fabrication of Chassis and implementation of the project. The phases are

1. Development phase
2. Implementation phase

Development Phase

The development phase includes several components like

- Steering committee meetings to discuss each and every aspect involved in designing communication material, design and fabrication of the bus, deciding action plans for future for the development of the Environment Education Bus.
- Participatory workshops with the involvement of educational institutions, NGOs, agencies to involve the target audience to identify environment issues in their respective districts and to provide feedback, which will be helpful in designing the communication material for the environment education bus.
- Compilation of primary and secondary data from the information received from the workshops, informative reports, websites, reference journal and linkages with various agencies to obtain relevant information for the communication aspect.
- Acquiring chassis for designing the Environment Education Bus by contacting various agencies especially for a suitable chassis in terms of availability of CNG, length, cost and delivery of the chassis within the project's given timeframe.
- Contacting designers and fabricators to conceptualize design and fabricate the Environment Education Bus along with the communication material. Inviting the designers for presentation before the committee members to review the conceptualization of the Environment Education Bus and to identify the agencies who will take up the design and fabrication work.
- Acquiring photographs, films and slide shows related to themes like cultural and natural heritage of Gujarat by contacting various organizations and acquiring the resource material

Implementation Phase

The implementation phase includes identifying the

- **Coordinating agencies** in each district that will take the ownership of the bus and facilitate the activities of the bus. These coordinating agencies will also identify youth volunteers in their respective districts.
- **Youth volunteers** will be identified by the coordinating agencies in the districts of Surat, Bharuch and Ahmedabad and will be given orientation by CEE to facilitate and conduct activities of the bus with the target group.
- **Target group** was identified by listing the schools, colleges, community, public places in the three districts of Surat, Bharuch and Ahmedabad where the bus will be taken. The target group will be the school children & teachers, college students and lecturers and the community.

Project Development and Implementation

- **Route map** for the bus was drawn for the three districts in different phases so as to cover all the schools, colleges, public places and community areas. The talukas in the districts of Surat, Ahmedabad and Bharuch will be the base station for the EE Bus to travel into interior areas of these districts.
- **Audience profile** includes rural, semi urban and urban population in all the three districts of Surat, Ahmedabad and Bharuch.
- **Programme type** is a schedule to conduct activities through bus like programme duration, audience profile, venue for the bus, time allotment for each activity which is based on the type of the target group.
- **Linkages with Schools, colleges and NGOs** to identify and list the number of schools and colleges in the three districts, to carry out the activities related to the Environment Education Bus.

Month wise activities of the project

Month	Activities
March	<ul style="list-style-type: none"> ▪ Identifying NGOs and educational institutions in Surat. ▪ Participatory Workshop in Surat to identify emerging issues of concern on environment - 21st March, 2004 ▪ Compilation of basic information on Surat.
April	<ul style="list-style-type: none"> ▪ Identifying NGOs and educational institutions in Bharuch. ▪ Workshop in Bharuch to identify emerging issues on of concern on environment -28th April, 2004. ▪ Steering committee meeting to review inputs from workshops and to discuss on the bus development- 29th April, 2004 ▪ Basic primary and secondary data collection on environmental issues of Surat, Bharuch and Ahmedabad from reports, websites and resource agencies. ▪ Compilation of content for the Environment Education Bus. ▪ Survey of agencies for CNG fitted chassis for EE Bus.
May	<ul style="list-style-type: none"> ▪ Workshop on finalizing the content for the Environment Education Bus- 27th May, 2004 ▪ Compilation of basic data for each medium in communication material like panels, activity manuals, pamphlets and posters. ▪ Exploring resource agencies for interactive models and films & slide shows on environmental issues.
June	<ul style="list-style-type: none"> ▪ Preparation of timeline for the Environment Education Bus. ▪ Recommendation of the suitable chassis to Gujarat Gas-21st June, 2004. ▪ Identification of resource agencies for photographs, films & slide shows and interactive models.
July	<ul style="list-style-type: none"> ▪ Preparation of Method media matrix and concept list. ▪ Preparation of route map (schools, colleges and NGOs) and identification of coordinating agencies. ▪ Steering committee meetings- 9th & 16th July, 2004. ▪ Designer's presentation. ▪ Exploring resource agencies for interactive models and films & slide shows on environmental issues.
August	<ul style="list-style-type: none"> ▪ Delivery of chassis ▪ Designer's presentation on the conceptualization of the design and fabrication of the bus. ▪ Internal presentation of the content to experts (CEE) for modification.

Workshops

As a part of development phase, series of workshops were organized in Surat, Bharuch and Ahmedabad to provide platform to the people of these districts to share their concerns and to identify key issues of environmental concerns. Participants from various educational institutions and NGOs gave substantial information on the environmental issues of their respective districts. Following are the key inputs from the three workshops.

a) Surat workshop: 21st March, 2004

Participants identified key issues of environmental concerns like Vehicular pollution, lack of public transport, Land pollution, Solid waste management, polluted water resources, population, disaster preparedness and occupational hazards. The participants also felt the lack of Non Governmental Organizations (NGOs) working towards the environment.

(Refer Annexure I)

b) Bharuch workshop: 28th April, 2004

Participants identified key issues like Pollution, soil salinity, preservation of wetlands (mangroves), deforestation and solid waste management. Disaster preparedness and deforestation were identified as emerging environment concerns by the participants in the workshop.

(Refer Annexure II)

c) State level workshop, Ahmedabad: 27th May, 2004

This workshop was organised to finalize the content for "Our Gujarat's Heritage-Environment Education (EE) Bus". The participants for the workshop were invited from various organizations and educational institutions of Surat, Bharuch and Ahmedabad districts. The main objective of the workshop was to present the environmental issues of the three districts and decide the topics and sub topics for the EE Bus, identify list of resource agencies and resources for utilization of EE activities and list tasks and expected broad roles.

The participants provided important feedback on the content, media strategies for implementation and activities within these.

(Refer Annexure III)

Chassis for Environment Education Bus

To design and fabricate the Environment Education (EE) Bus, various agencies were contacted for a chassis which suited the requirements of Environment Education Bus in terms of length, availability of CNG, Cost and the delivery of the Chassis within given timeframe.

Chassis surveyed of different companies:

	Company	Model	length	Cost	Delivery
1.	Swaraj Mazda	ZT54ED-ELWD NG fitted with C.N.G., WB 4760MM,6+1 TYRES	27 feet	8,41,000.00 (with C.N.G)	1 Month
2.	Tata Motors	222 PASSENGER	27 feet	8,00,000.00 (with C.N.G)	3 Months
3.	Ashok Leyland	SFC/407/31, EX CLB HDK	16 feet	4,63,716.00 (without C.N.G)	2 Months
4.	Tempo Travellar	OM 616'(D.98) Diesel	17 feet	5,55,000.00 (without C.N.G)	3 Months

A meeting was organized on 21st June, 2004 in CEE with Mr. Suryanarayana, Purchase Officer, Mr. Prafful Bhai, Designer and Mr.Gopal Kumar Jain, Programme Officer to discuss about the chassis like'

- Length of the chassis should be sufficient to fabricate it into a mobile exhibition bus.
- CNG should be available since the bus will carry message on environment resources.
- Delivery of the chassis in the given timeframe is necessary.

The chassis of Swaraj Mazda was found suitable in all the terms after the discussions and the same was recommended to Gujarat Gas for further procedure.

The chassis of Swaraj Mazda was delivered to CEE within six weeks of placing the order.

Steering Committee meetings

The steering committee meeting's are to discuss the development of Environment Education Bus and to decide action plan regarding the Environment bus.

Members of Steering Committee:

Ms.Jyotsna Bhatnagar, British Gas India
 Mr.Himanshu Upadhyay, Gujarat Gas India
 Ms.Madhavi Joshi, Programme Coordinator, CEE
 Mr.Gopal Kumar Jain, Programme Officer, CEE

Steering Committee meeting on 29th April, 2004

Agenda for the Steering Committee meeting

- Review the comments and suggestions obtained from the Surat and Bharuch workshops,
- Set agenda for the Ahmedabad workshop and
- Development of the Environment Education (EE) Bus like bus procurement,
- Capital items purchase and
- Design, development and fabrication of the EE Bus.

Steering Committee meeting on 9th July, 2004

Agenda for the Steering Committee meeting

- Review workshops and their outcomes
- Procurement of the chassis – procedure and status.
- Discuss timeline and development of the Environment Education (EE) Bus.
- Reporting format for the coordinating agencies at district level.
- Financial aspect of the Environment Education Bus

Steering Committee meeting on 16th July, 2004

Agenda for the Steering Committee meeting

- City schedule: City launches of the bus, identification of coordinating agencies and list of holidays.
- Programme type: Duration, venue, location and audience profile for the Environment Bus.
- Media, matrix and method: No of Panels, interactive models, films & slide shows, posters and pamphlets.

(Refer Annexure IV: Reports of the Steering Committee meetings)

Designer's presentation

To develop the communication design and fabricate the Environment Education Bus, designers and fabricators were contacted and were provided with the concept note, Method Media Matrix and workshop reports to facilitate them in conceptualizing the Environment Education Bus.

Professionals from different fields like Design, Development communication, Environment Education, Media formed the panel to appraise various designers' conceptualization of the environment education bus.

Committee Members:

- Mr.Vikas Satwalekar, Design Consultant
- Dr.Arbind Sinha, Professor, MICA
- Mr.Sameer B.Bhatt, Free Lance Consultant, Graphics Design
- Ms.Mamata Pandya, Programme Coordinator, CEE
- Mr.K.V.Suryanarayan, Administrative Officer, Purchase, CEE
- Ms.Madhavi Joshi, Programme Coordinator,

A series of presentations were done by designers as per the details given below:

Mr. Hari Kishan, Coordinator, Think Collaborative Design on 19th July, 2004 made presentation on the company profile of Think Design Collaborative. This company is involved in designing products for clients like Jindal group, Glitterati, Municipal commission of Mumbai and hair products like Silk 'n' shine. The company also works in collaboration with various other designers and fabricators.

He presented a brief outline of the proposed project's concept design in the following four components:

- Project brief statement
- Information presentation concept
- Information design and vehicle design
- Fabrication and design of the vehicle.

Presentation by five Designers, 6th August, 2004

Designers from Delhi, Pune, Indore and Ahmedabad were contacted and were given the concept note, media, method and matrix and workshop reports of Environment Education (EE) Bus to conceptualize the design of the bus. Following are the designer's who made presentation on 6th August, 2004.

1. **Design Edge & Wadia Body Builders-** Mr.Amit Paul & Mr.Naushad Wadia, Ahmedabad presented their conceptualization basically on the fabrication of the body of the bus, this included collapsible display panels and the overall look of the bus. They presented a series of sketches of the look of the bus.
2. **Think Design Collaborative-** Mr.Hari Kishan, Delhi presented his holistic conceptualization like a storyline for the themes, mascot for the bus, communication material, maximum utilization of the bus exterior for more display of information.
3. **Genesism-** Mr. Atul Manohar, Pune presented his conceptualization of portal on environment education where students can have direct access to information on various issues. He also presented games based on environment like scrabbles and quizzes.
4. **Abhikalp Design Studio-** Mr.Manish Maheshwari, Indore presented the company profile of Abhikalp Design studio and the fabrication work done for mobile exhibition vans.

Designer' s presentation

- 5. Cluster One- Mr.Parag Sen, Pune** presented a series of simulated sketches of the bus and also presented the profile of Cluster One.

A series of presentations were done by Mr.Amit Paul and Mr.Naushad Wadia who presented simulated version of the Environment Education Bus in a series of meeting held in CEE.

After reviewing the presentations of the designers, the committee members decided that the design and fabrication could be divided into two parts with each agency given a suitable responsibility. Details of this are as follows:

- 1. Communication design:** Think Design Collaborative could be given the communication design part as their conceptualization included storyline and mascot for the bus which is a strong point of their presentation.
- 2. Design and fabrication of bus:** Wadia body builders could be given as they are based in Ahmedabad and the fabrication work can be closely monitored. Wadia body builder has in past worked on a mobile exhibition van for CEE and their work has been satisfactory.

The themes for the Environment Education Bus were finalized based on the inputs from the workshops and primary and secondary data collected from relevant reports, journals, publications and websites. The themes are broadly categorized so as to cover all relevant environment issues and factors in the three districts of Surat, Bharuch and Ahmedabad.

- Our Biodiversity
- Our Land
- Our Energy Resources
- Air around us
- Our water resources

Concept list

The concept list is the detailed elaboration of each theme, for example, for the theme "Biodiversity", it was divided into subcategories like Biogeographical zones of Gujarat, Eco systems, flora and fauna, wetlands, national parks and sanctuaries, coastal biodiversity and joint forest management in Gujarat. The concept list has general information, best practices, actions and impacts about the themes.

(Refer Annexure V: list of concepts)

Method Media Matrix

Treatment of each concept into different components whether it should be included into panel exhibition, interactive models, activities, posters, pamphlets, role plays, films & slide shows to increase the levels of understanding in the children through interaction, activity kits, visual display and traditional folk media, Method Media Matrix was applied to classify the themes through various mediums.

(Refer Annexure VI: Method Media Matrix)

Panels

Two to three panels on each theme with all the basic information will be on the exterior of the bus. For each panel baseline map of Gujarat was used to highlight important information related to Gujarat.

*For example, for the theme "water", the baseline map was of the major rivers and water sources of Gujarat, on to which additional information like water supply & demand, drought & flood prone areas, surface & ground water and water borne diseases of Gujarat was included. Most of the display will be either in the form of pictures, graphs or maps. One panel will be interactive with push buttons for people to cast their opinions on various environment concerns and their role towards the concern.

Interactive models

Interactive models will be theme based and Display of interactive working models like solar cookers, ambient air samplers along with incomplete models (mechanical) which will give the children a chance to understand, identify and resolve the concept of the model.

Activity manuals

Educator's kits will contain activity kits for schoolchildren, pamphlets, brochures, labels & postcards.

Films and slide shows:

Films and slide shows will be screened in various schools and colleges to raise awareness on various environment issues. Following are resource agencies for films and slide shows

- The Television trust for Environment, CEE
- Dristhi Media Collective
- GEER Foundation

(Refer Annexure VII: list of films)

Photographs & Transparencies

Photographs of Gujarat's natural and cultural heritage from the following resource agencies were acquired for utilizing them in the visual display. Following are the resource agencies contacted for photographs and transparencies

- Gujarat tourism,
- GEER Foundation
- Independent photographers

Reports referred

- CEE Publications (In house)
- Gujarat Ecology commission (GEC)
- GEER Foundation
- Centre for Science and Environment (CSE)
- The Energy Research Institute (TERI)
- Census of Gujarat

Meeting with CEE Groups

A presentation of the draft content of Environment Education Bus was done to the CEE groups. Following are the feedback received

- There can be mix and match of maps and text, like pollution can be highlighted in all other panels. Pollution panel can be replaced by industrial panel focusing on industrial regions like textiles, refinery and pharmaceuticals.
- Exterior of the bus can be a panorama of cultural and natural heritage with photographs or there can be a "Do you know" kind of representation on the exteriors.
- A Story line can be included to increase communication value of the bus. Volunteers of the bus can go around with outfits of animal or the mascot to attract audience.
- A hot air balloons with the picture of the mascot can be used to along with the mascot.
- Folk stories, short stories, poems, case studies can be used to introduce the panels and drop boxes for folklores, recipes of locale specific cuisines and songs.
- Institutions like ISRO, GEER Foundation Etc can be mentioned in the cultural heritages.
- AV facility for birdcalls," Listen and know" and recording regional dialects Gujarat.
- The third side of the bus can be utilized CEE info or for the picture of State bird "Sarus".

Members in the CEE Group

- Meena Raghunathan, Programme Coordinator
- Shivani Jain, Programme Officer
- Meena Nareshwar, Programme Officer
- Trupti Rawal, Project Officer
- N.Rajeswari, Programme Officer
- Jigna Surkur, Project Officer
- Georgia Ohm, Project Associate
- Rasleen Kaur Sahni, Project Officer
- Pramod sharma, Project Officer
- M.Balaji, Project coordinator

Implementation phase

Coordinating agencies were identified in Surat, Bharuch and Ahmedabad who will take ownership of the Environment Education Bus and will facilitate the activities of the bus. These coordinating agencies will also help in identifying the target group in their respective group.

The coordinating agencies identified are

- *Surat*- Surat Nature Club
- *Bharuch*- Akhil Gujarat Manav Kalyan
- *Ahmedabad*- Club of Youth Working for Environment (CYWEN),CEE

Youth Volunteers

The three coordinating agencies will identify youth volunteers from their respective districts who will facilitate the activities of the Environment Education Bus. Prior orientation will be provided to these volunteers on how to operate and facilitate the activities of the bus.

Target Audience

School children and teachers
College students and professors
Urban/Semi urban & rural population

Route map and city schedules

Route map for the Environment Education (EE) Bus was drawn for the three districts in different phases so as to cover all the schools, colleges, public places and community areas. The talukas in the districts of Surat, Ahmedabad and Bharuch will be the base station for the EE Bus to travel into interior areas of these districts.

Number of days will depend on the no of schools, colleges and scale of the area. The Programme type for the EE Bus was designed on the basis of the route map of the three districts.

Programme type

Programme type consisted of the following factors like Target groups, timing, no of audience and area profile like rural, semi urban and urban. The programme design consists of programme profile, profile of audience, venue for the programme (Auditorium or open ground). The programme type was also categorized into different setups for different target groups like school children & teachers, rural community, urban and semi urban community and public places.

(Refer Annexure VIII: Programme type)

Linkages with schools, colleges and NGO's

Schools, colleges and NGOs in the districts of Surat, Ahmedabad and Bharuch were listed and separate files have been created for each district with a route map.

These schools, colleges and NGOs will be given prior information about the Environment Education (EE) Bus and pre bus activities will also be conducted to orient the target audience about the issues related to environment.

Webpage on Environment Education bus is being designed to avail access to the children who are further interested to know more about the Environment Education Bus and acquiring more information on themes of the bus.

Reporting & Documentation

Reporting and documenting all the activities of the project is one of the main aspects of the development phase. The core activity of the project involves documenting the following:

- Workshop reports
- Minutes of steering committee meetings

Monthly reporting format for coordinating agencies

A reporting format has been prepared for the coordinating agencies which will be used by these agencies to report the activities conducted with the target group in their respective districts through the Environment Education Bus.

Draft monthly reporting format

Activities planned	Period	Activities conducted	Status	Remarks

Operations Manual

This manual is a step wise documentation of the process followed to develop the project in all the phases.

Phase I- Development phase

- Workshops
- Acquiring the Chassis
- Designing the communication material
- Identifying resource agencies
- Steering committee meetings
- Identifying Designers & fabricators

Phase II-Implementation Phase

- Launching of the bus
- Identifying coordinating agencies
- Youth volunteers
- Programme type
- Route map
- Linkages with schools, colleges and NGOs.

Operations manual will be a detailed reporting of the modus operandi in all phases for the Environment Education Bus.

Facilitator's Manual

This Manual will provide basic information related to the Environment Education bus like

- Do's and Don'ts of EE Bus
- How to put up the bus for exhibition and organize the activities around the bus.
- Know how on CNG
- Addresses of the local coordinating agencies
- Important telephone numbers and addresses

Resource Agencies

1. **GEER Foundation**
Indroda Park
Sector-9
Gandhinagar-382 009
Gujarat
2. **Gujarat Tourism**
H.K.House, Opp Bala Showroom
Ashram Road, Ahmedabad-380 009
Phone No: 91-79-26589172, 26589683
E-mail: Ahmedabad@gujarattourism.com
3. **Dhrishti Media collective**
103, Anand Hari Tower, New Sandesh Press Road
Opp. Chanakya Tower, Bodakdev
Ahmedabad-380 054
Phone No: 8014235, 26851235
E-mail: drishtiad1@sancharnet.in
4. **Wildlife trust of India**
A-220, New Friends Colony
New Delhi-110 065
Phone No: 91-11-2632-6025/2632-6026
E-mail: info@wildlifetrustofindia.org
5. **Gujarat Ecology Commission (GEC)**
GERI Campus, Race Course Road,
Vadodara
Tele: (0265) 339115, 336713.
Fax : (0265) 340036
E-mail : info@gec.gov.in
6. **Gujarat state Pollution control board (GPCB)**
Paryavaran Bhavan, Sector 10A,
Gandhinagar 382 043
Phone No: 91-79-23222095, 23222096, 23222756
Fax: 91-79 23232156, 23222784, 23232161
Website: www.gpcb.gov.in
E-Mail: chairman@gpcb.gov.in
7. **Surat Nature Club**
81, Sarjan society
Athvalya lines, Parle Point
Surat-395 007
Phone No: 91-98251 19081
E-mail: secretary@natureclubsurat.org
Website: www.natureclubsurat.org
8. **National Institute of Design**
Paldi, Ahmedabad-380 007
Phone No: 91-79-2663 9692, 2660 5243
Fax: 91-79-2662 1167
E-mail: info@nid.edu
Website: www.nid.edu
9. **Forest survey of India (FSI)**
Ministry of Environment & Forests
Kaulagarh Road, P.O., IPE
Dehradun - 248 195
Phone: 91-135-756139, 755037, 754507
Fax: 91-135-759104
E-Mail: fsidir@nde.vsnl.net.in,
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10. **The Television Trust for the Environment (TVE)**
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Project Partners

Centre for Environment Education (CEE) was established in August 1984 as a Centre of Excellence supported by the Ministry of Environment and Forests, Government of India, and affiliated to the Nehru Foundation for Development (NFD). CEE's primary objective is to improve public awareness and understanding of environmental issues with a view to promote the conservation and wise use of nature and natural resources. To this end, CEE not only creates expertise in the field of environmental education, but also develops innovative programmes and educational materials, testing them for validity and effectiveness.

Centre for Environment Education (CEE)

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British Gas (BG) India is part of the BG Group of UK, a leading international energy company that has expertise across the spectrum of the natural gas chain. Its activities span the range of gas operations from exploration to delivery to the consumer. British Gas has global presence spanning 20 countries across five continents. BG India manages and develops the upstream and downstream interests of the Group in India and has been active in the country for over a decade. BG India and its assets are actively involved in several social development and environment initiatives benefiting local communities across the country.

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Gujarat Gas Company limited (GGCL) supplies natural gas to the cities of Ankleshwar, Bharuch and Surat in south Gujarat. Gujarat Gas Company Limited (GGCL) is India's largest private natural Gas distribution company; GGCL distributes gas to more than 140,000 domestic, commercial and industrial customers in Gujarat State.

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