



PAKISTAN PETROLEUM  
EXPLORATION & PRODUCTION  
COMPANIES ASSOCIATION

## CSR NEWSLETTER

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Environment

Oil and gas companies today have combined their corporate social responsibilities with their responsibilities to the environment - a global issue of increasing concern. Measures to avoid air and water pollution are at the forefront of oil and gas development projects.

Exploration and production companies in Pakistan have extended this goal to create healthier surroundings for the communities around their oil and gas facilities. Recent initiatives in this regard have been made by BHP Billiton in its cleanup campaign in Johi Town.

Ensuring safe operations, environmentally safe products, and preserving biodiversity can all be achieved through systematic procedures and community participation. This is demonstrated by MOL's integrated environmental and social impact assessment (ESIA) processes and OGDCL's environmental impact assessment (EIA) procedures.

Sanitation and proper disposal of sewage play an important role in environmental cleanliness and human health. To this end, MOL's efforts to provide sanitation services in district Karak have proved fruitful.

A core aspect of environmental management is overseeing the usage of natural resources such as forests. BHP Billiton's tree plantation drive in district Dadu addresses this issue. In some instances, local communities depend on such natural resources for their livelihoods. Where this is the case, it is imperative that people be provided with an alternative that is both affordable and environmentally friendly. BP Pakistan tackled this issue by introducing fuel-efficient, low pollution stoves to communities in districts Badin and Thatta.

This newsletter details the efforts mentioned above, and shows how oil and gas exploration and production companies in Pakistan are helping to improve environmental conditions for future generations.



This issue - Environment

Diverse Initiatives for Better Environment

Helping to protect local bio-diversity in Pakistan

Green Stoves creating Cleaner Homes and Countryside!!

Helping Create Clean & Healthy Environment

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Children enjoying an evening in Makhdoom Bilawal Public Park - Johi

### Diverse Initiatives for Better Environment

BHP Billiton Pakistan has initiated several environment based programmes near its Zamzama gas field in district Dadu. Together with our partner NGOs, we have made efforts to encourage natural resource management and public sanitation through various projects. Some of our environmental initiatives are:-

#### Tree Plantation Drive

District Dadu's tree population is fast depleting. To help control deforestation, BHP Billiton joined hands with local communities to plant some 700 local fruit bearing trees in 2007. The campaign was launched with the cooperation of 14 Zamzama supported School Management Committees (SMCs) with technical guidance from a local NGO. BHP Billiton provided financial assistance to the campaign, ensuring trees were purchased from local vendors. In addition, community meetings were held to foster awareness on the dangers of deforestation, and to sensitize communities on the need for tree plantation.

#### Establishment of Makhdoom Bilawal Public Park in Johi Town

On the request of the local government to help preserve the natural environment and provide recreation for people, BHP Billiton helped convert a landfill into Johi town's first public park which now offers recreational facilities to 35,000 people. The garden is aesthetically designed by BHP Billiton employees working on a voluntary basis. The park features recycled and maintenance-free play-sets for children and is free for the general public. A canteen has also been established to provide some livelihood support to people living in the area. A park management committee was also formed to ensure the involvement of local government and community groups.

#### Solid Waste Management Project for the Surrounding Villages

This started as a pilot project in 2007 to create awareness on health and hygiene in local villages. The project has been initiated through Community Citizen's Board (CCBs) in five villages, directly benefiting some 2,000 villagers. Funded by BHP Billiton, the CCBs installed waste bins and implemented a comprehensive solid waste management plan for 214 households. The plan includes means for waste collection, separation, and proper disposal. The CCBs hold regular meetings with communities to share information on personal and collective cleanliness in homes and streets. Quiz competitions in local schools and seminars in villages are additional tools being employed to disseminate information on hygiene.

#### Pilot Sanitation Project for Two Wards of Johi Town

BHP Billiton initiated this project under its infrastructure development programme. The project is aimed at making Sayedabad the first model colony of Johi town with resurfaced lanes and a concrete drainage system. The project has benefited more than 50 households so far, providing temporary employment and business opportunities for the local people. The government and local committees ensure maintenance and the sustainability of the project.



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Helping to protect local bio-diversity in Pakistan



A new home for Tullo's turtles

Tullow's EHS policy empowers any individual to stop any activity at any time where there is risk of an accident or an environmental incident. The practical application of this statement was demonstrated during a recent drilling operation in Pakistan.

The commitment of Tullow's workforce to the environment and local biodiversity meant that work in the immediate vicinity of a well was suspended until a local species of turtle found near the site could be relocated to a new home.

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Efficient and Environment Friendly Stoves

Green Stoves creating Cleaner Homes and Countryside!!

In line with its commitment to the enhancement of living standards of host communities and environmental conservation, BP Pakistan (BPP) embarked upon one such project in districts Badin and Thatta with two grassroots NGOs under the auspices of UNDP. The traditional open structured mud stoves used in these areas emit high quantities of smoke and heat, endangering both people and the environment. Such stoves are not only fuel-inefficient, but their emissions can cause respiratory diseases and visual impairment. In addition, the use of wood biomass is linked to air pollution and deforestation.

In this project local artisans were trained to manufacture low cost fuel-efficient stoves using locally available materials. Each stove saves on average six kilograms of biomass gases per day, thereby reducing fuel wood consumption by 40%. These fine-clay stoves are connected to an outer chimney that expels the smoke, leaving indoor air clean and smoke free. They relieve women from the burden of having to collect fuel wood, decrease cooking and cleaning time, and reduce air pollution and deforestation, thereby protecting the local ecosystem.

Although a very basic design, these stoves have exceeded expectations as indoor air quality in households has improved substantially, deforestation has decreased, and the local population's susceptibility to eye and respiratory diseases has decreased in 50 percent of households. Firewood expenditures have lessened, and time consuming activities such as cooking, cleaning, and collecting fuel wood have all decreased.

The relative success of the project is evident, as 45 villages have already benefitted from the stoves. Over 2,100 stoves were installed, and 65 artisans trained. In addition, 14 villages outside the target area have replicated the successes of the project.

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**Helping Create Clean & Healthy Environment**

Since its inception, MOL-Pakistan has made significant efforts to promote community welfare and address environmental concerns in operation areas. The organization is actively engaged in community development projects in its concession area.

MOL's Manzalai gas plant is located at Gurguri in district Karak. Gurguri village adjacent to the plant lacked a proper drainage system without which hygiene-related diseases presented a very real danger. MOL identified a sanitation scheme for mohalla Hafizabad within the village, in consultation with the union council nazim and the local community. The scheme included a system for the proper drainage and disposal of grey water (discharged from homes) and storm water from the main street.

The area was surveyed and assessed before allowing construction. The scheme involved brick paving the street and constructing parallel open drains leading to a pond. The project was



Brick lined Pavement with Open drain

executed through a local contractor under the strict supervision of MOL engineers. The project has proved effective and brought about a positive change in local living conditions.

Protecting people and the environment is considered a core value at MOL Pakistan. We are committed to ensuring that our technologies, workplace practices, and products and services are safe and environmentally friendly. Preliminary screening and scoping exercises of new projects are designed to identify potential impacts on biodiversity. Where this is the case, our integrated environmental and social impact assessment (IESIA) processes ensure that potential impacts are fully assessed and analyzed. In addition, MOL Pakistan operates a bioremediation treatment facility to treat and neutralize oil-based mud cuttings generated from drilling operations.

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**OGDCL Supports Biodiversity**

OGDCL was granted a no objection certificate (NOC) by the Pakistan Environmental Protection Agency (EPA) to carry out exploration and production (E&P) activities in the Thano Beg Block which falls in the protected area of the Kirthar National Park. A public hearing was held based on the environmental impact assessment (EIA) of the 2D seismic survey project planned for the block. Global Environmental Lab (Pvt.) Ltd. (GEL) presented the case to the Sindh EPA on behalf of OGDCL. Public consultation meetings were arranged in villages Pipir Goth, Haji Pario, Saleh Mohd, Juma Goth, Ismail Goth, Bahram Goth, Khuda Bux, and Turpio. OGDCL assured the environmental agencies including the Forest, Wildlife, and Environment Department of the Government of Sindh, of its commitment towards the protection of the socio-economic and cultural environment of the area. The NOC was



Participative Processes at Work

issued to OGDCL based on the reassurance that all activities will be undertaken as proposed and described in the EIA report, and that recommended mitigation and environmental management plans will be adopted. Moreover, OGDCL is committed to ensuring that the seismic project will not result in any significant or long-term impacts on the local community, or the physical and biological environment of the Kirthar National Park.

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