

Greener Pakistan



An initiative of
Health, Safety & Environment Department
with creative coordination of
Corporate Communications Department



Pakistan State Oil

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Corporate Environment Report 2007



Pakistan State Oil



In today's competitive environment, winners will be able to efficiently balance the goal of ensuring sustainability of business environment with the traditional goal of maximizing the profitability of the shareholders.

PSO demonstrates responsible operations and community work for a greener, cleaner and healthier Pakistan.

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About the report

This year's Corporate Environment Report, a vital part of our reporting initiatives, details the depth of our commitment to our employees and contractors' safety and wellbeing, as well as our relentless drive to protect and preserve the environment. It also highlights some of the many ways in which PSO is contributing to a better Pakistan.

The purpose and scope of the Report is to provide information about PSO's environmental performance and overview on our community-related activities to all our stakeholders for acquiring their confidence and strengthening better relationship with PSO.

The Report follows the framework of the Global Reporting Initiative (GRI), except wherever GRI requirements are not applicable or are not reported for PSO.

The Report is also available on our website – www.psopk.com

Managing Director & CEO's Message

Being a responsible corporate citizen, PSO realizes that success of business financial performance and sustainability depends on the environment in which it operates. Accordingly we strive to strike an efficient balance between



financial, social and ecological performance. Health, safety and environment form our corporate objectives while corporate responsibility is part of our corporate values.

As reflected by the title of the report – “Greener Pakistan” main thrust of our corporate objectives is to maintain a harmony between our business operations and the natural environment to realize benefit of synergy.

Today all our 3,700 retail outlets across the country dispense environmental efficient fuels at no additional cost to our customers. These fuels play a vital role in reduction of exhaust emissions that result in less pollution and greener environment. There are fifteen (15) Mobile Quality Testing Units in operation which ensure consistent quality of products being supplied to our consumers. Recently, PSO adopted water tool developed by World Business Council for Social Development (WBCSD)

to optimize the use of water resources by PSO. In addition to these, certain corporate initiatives were undertaken in FY 06-07 to promote environmental efficiency. The highlights are as follows:

- PSO continues to be a leader in occupational safety. We carried out 5,383,669 operational man hours without any lost work day in FY 06-07.
- Our energy conservation program at our Green Stations conserved energy equal to 75% of our total energy use in FY 06-07. Our solar energy and windmill project further resulted in energy saving of 25.92 megawatt hour (MWH).
- Our Environment Management Systems (EMS) have been ISO certified. We now have five ISO 14001 certified facilities apart from two OHSAS 18001 certified storage terminals.

Nevertheless, there is a need for additional value creation by advancing our initiatives. We welcome your feedback in this regard.

This report is a testament of the fact that PSO has come a long way in terms of corporate transformation involving recent initiatives to profitable and responsible growth in the interest of our shareholders and community at large. We pledge to continue to ensure that PSO remains a leader not only in the energy sector, but also in environmental and social responsibility.

Jalees Ahmed Siddiqi

Corporate Profile

Pakistan State Oil, the largest oil marketing company in the country has a turnover of over US\$ 6.8 billion and a market share of over 80% in black oil and 59% in white oil (Mogas, HSD, Kerosene and Jet fuel). PSO enjoys a market capitalization of around Rs. 67 billion (US\$ 1.1 billion), contributing to Rs. 68 billion to national exchequer in FY 06-07.



Our Vision

To excel in delivering value to customers as an innovative and dynamic energy company that gets to the future first.

During FY 06-07, PSO sold 11.8 million metric tons of POL products, up by 21% over the preceding year. Moreover, PSO sales revenue touched an all time high of Rs. 411 billion, up by 17% over preceding year. For the year ended June 30, 2007, the company recorded profit before tax of Rs. 7.1 billion while profit after tax stood at Rs. 4.7 billion.

PSO is the first public company to become member of World Economic Forum (WEF). It is the only company in the Muslim World whose CEO is on the World Business Council for Sustainable Development's Business Role Focus Area Core Team (FACT). PSO led the launch of BCSD Pakistan in FY07.

The company has the largest retail network comprising of around 3,700 retail outlets across the country, including 1,609 New Vision outlets commissioned

within seven years. With an extensive storage capacity, almost 81% of total national storage i.e. around 860,000 metric tons, PSO has a competitive edge in terms of economies of scale and cost effective operations.

Alongside its retail business, PSO also caters the fuel demand of industrial consumers that include power generation, railways, sugar and textile industry. The company has also been meeting the fuel needs of the armed forces of Pakistan.

As the leading national energy company of Pakistan, PSO is committed towards minimizing its environmental footprint, maximizing occupational safety and supporting community building activities. The company has always been in the forefront of humanitarian causes and disaster relief efforts.

Our Values

Excellence

We believe that excellence in our core activities emerges from a passion for satisfying our customers' needs in terms of total quality management. Our foremost goal is to retain our corporate leadership.

Cohesiveness

We endeavor to achieve higher collective and individual goals through team. This is inculcated in the organization through effective communication.

Respect

We are an Equal Opportunity Employer attracting and recruiting the finest people from around the country. We value contribution of individuals and teams. Individual contributions are recognized through our reward and recognition program.

Integrity

We uphold our values and Business Ethics principles in every action and decision. Professional and personal honesty, dedication and commitment are the landmarks of our success. Open and transparent business practices are based on ethical values and respect for employees, communities and the environment.

Innovation

We are committed to continuous improvement, both in New Product and Processes as well as those existing already. We encourage Creative Ideas from all stakeholders.

Corporate Responsibility

We promote Health, Safety and Environment culture both internally and externally. We emphasize on Community Development and aspire to make society a better place to live in.

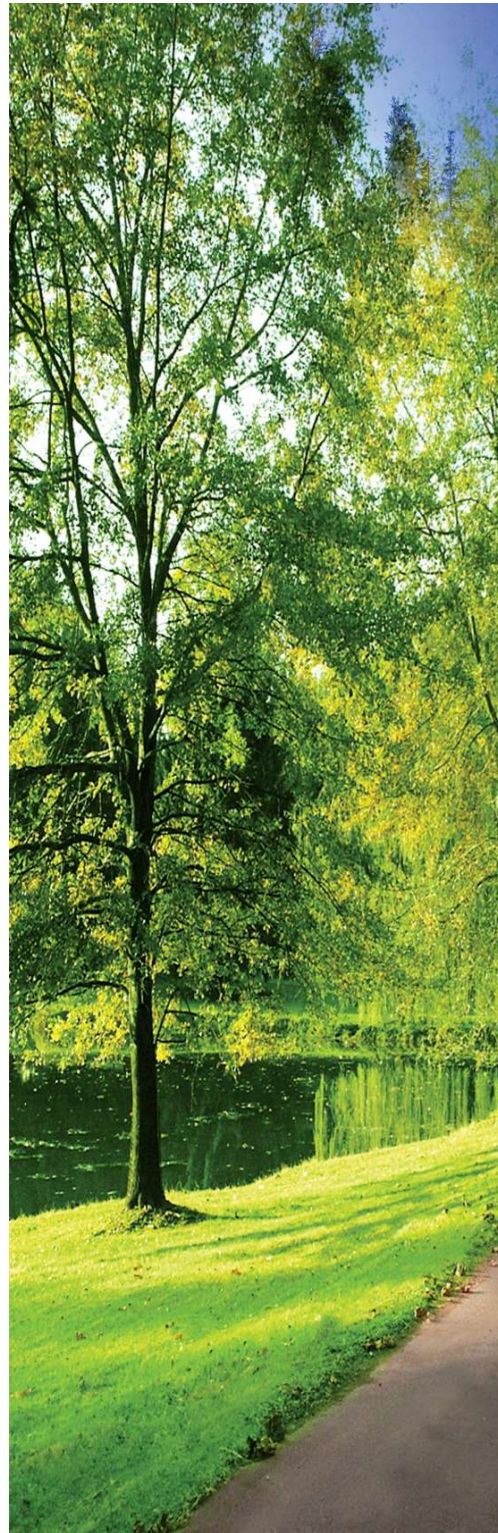


Pakistan State Oil

Health,
Safety
&

Health, Safety & Environment

Environment



Health, Safety and Environment

Section Structure at a glance:

- A. Overview
- B. HSE Policy Statement
- C. HSE Steering Committee
 - a. Role
 - b. Composition/ Members
 - c. Procedures
- D. HSE Department
 - a. Role
 - b. Corporate Structure
 - c. Work Scope and Progress
- E. Environmental Management Systems
- F. Product Stewardship
- G. Occupational Safety Program
- H. Contract Safety Program
- I. Emergency Preparedness
- J. HSE Initiatives 2007
 - a. Energy Conservation Measures
 - i. Green Stations
 - ii. Solar energy
 - iii. Windmill
 - b. Environmental Safety Measures
 - i. Reduction in Oil Spills
 - ii. Gas Leakage detection Systems at CNG Stations
 - iii. Oil Water Separator
 - c. Consumer Safety Measures
 - i. Brake Fluid Testing
 - d. Work Place Safety Measure
 - i. Intelligent Fire Detection System
 - e. Employee Wellbeing Measures
 - i. Water Filter at PSO
- K. HSE Audit
- L. HSE Awareness
 - a. Training Sessions
 - b. Publications
- M. Awards & Accolades

Overview

Environment, health and safety management are high priority for responsible companies and PSO is no exception.

We at PSO are committed to follow high standards of environmental protection. Our environmental management systems conform to best international practices. In safety management, we set zero accidents as our primary objective by taking a proactive stance. We aim to be among leaders in the field of occupational health improvement.

Each year we aim to improve the HSE performance, systems and programs. Senior management at PSO believes that how we care for people and the environment today affects both current and future generations. We accept our responsibility for doing our best to maintain awareness and to minimize adverse safety, health and environmental impacts from our operations. This is beneficial for the environment in which we work and live.

HSE Policy Statement

“PSO is committed to maintaining a safe, healthy and sustainable environment wherever we operate – for our people, our customers, our partners and contractors and the community at large.”

The company aims to protect people’s health, have zero injuries and avoid or minimize any environmental impact of its products and processes. We are committed to achieving these goals through systematic management of HSE and ensuring compliance with the law and achieving continuous improvement.

Our Managing Director & CEO is responsible for enacting this policy and giving HSE equal priority with all other business issues.

Our commitments are to:

- Seek zero harm to our people and minimal impact on the environment through our business operations
- Systematically manage health, safety and environmental matters
- Rigorously audit and review the safety implications of our activities
- Minimize the consumption of energy
- Promote the occupational health and welfare of staff

To achieve these commitments we have developed, implemented and maintained effective management systems and processes that enable us to:

- Identify, assess and manage hazards, impacts and risks from our activities and services
- Meet and, where appropriate, exceed applicable legal and other requirements
- Set, achieve and report against objectives and targets to demonstrate continual performance improvement
- Identify areas for improvement through comprehensive incident reporting and investigation

HSE Steering Committee

Role

The role of our Health, Safety & Environment (HSE) Committee is to oversee HSE-related matters arising out of the activities and operations of PSO and the impact of those activities and operations on employees, contractors and the communities in which the company operates.

The HSE Committee is involved in:

- HSE policy formulation and monitoring
- HSE policy compliance and dealing with non-compliance issues

Composition

The HSE steering committee comprises the Managing Director, Executive Directors and several General Managers and Deputy General Managers. This ensures top management’s commitment to HSE.

Members of Steering Committee

Managing Director & CEO	<i>Chairman</i>
Executive Director – Customer Services	
Executive Director – Finance & Information Technology	
General Manager – HSE & Security Services	<i>Secretary</i>
General Manager – Operations	
General Manager – Construction & Retail Facilities	
General Manager – Aviation, Marine & Exports	
General Manager – Retail Fuels	
General Manager – Lubricants & Chemicals	
General Manager – Training & Organizational Development	
Deputy General Manager – Gaseous Fuels	
Deputy General Manager – QA & MQTU	

Procedures

The Committee meet at least four times each year. The Committee may invite other GMs and DGMs to participate in meetings. It may also require any employee of the company to attend meetings for the purpose of making presentations or participating in discussions.

HSE Department

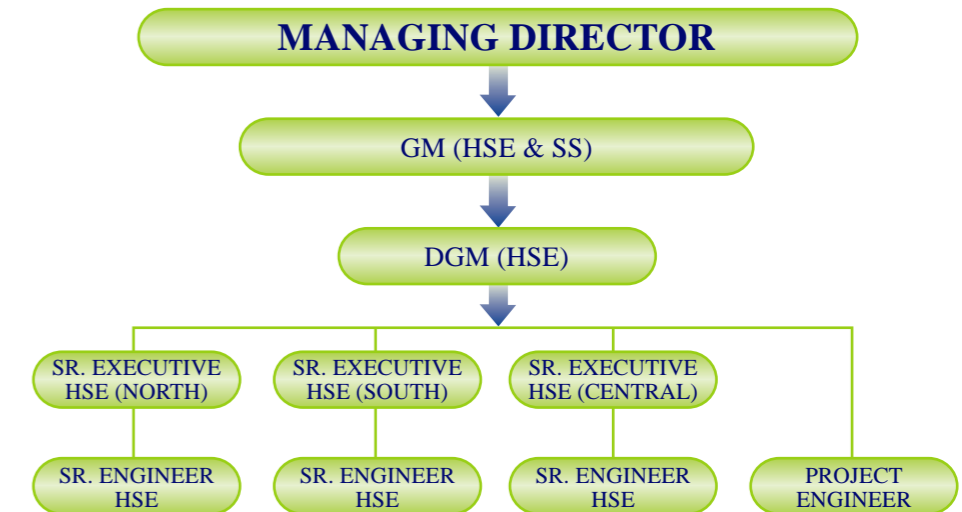
Role

- Reviewing and recommending targets for HSE performance of the company and assessing progress by the company towards those targets.
- Incorporating appropriate occupational health, safety and environmental measures at all PSO facilities in New Vision retail outlets (NVROs).
- Ensuring that appropriate HSE assessment activities are conducted as part of assets acquisition and disposal activities.
- Ensuring that necessary awareness and training on health, safety and environmental areas are provided to employees and contractors.
- Further ensuring that regular HSE audits are conducted on all PSO facilities.
- Investigating HSE incidents within the company and considering appropriate actions and measures to minimize the risk of recurrence.



HSE Department with Managing Director

Corporate HSE Structure



The General Manager, HSE, exercises an advisory role on all matters affecting safety, loss prevention and the environment protection. He is responsible to ensure:

- Necessary HSE-related training is conducted for employees and contractors of PSO.
- All HSE-related procedures are fully implemented and regular HSE audits are conducted on all sites.
- Effectiveness with which safe and environment-friendly working conditions are maintained on the company premises and its contractors' sites and to draw attention of the top management to any deficiencies and recommend any remedial actions.

Deputy General Manager HSE provides professional assistance to the General Manager HSE in all matters related to HSE. He, through his team of HSE executives / engineers, ensures:

- Availability of necessary training material to all employees of PSO for the effective implementation of HSE procedures.

- Execution of HSE audits, inspections and development of checklists.
- Reporting of HSE performance on regular basis and its continual improvement.

Installation managers, depot in-charges, plant managers, divisional managers and aviation station in-charges of PSO have direct responsibility for loss prevention, environmental control and providing and maintaining safe working conditions of their sites by following company's HSE standard operating procedures.

HSE Coordinator is nominated by facility in-charge at each facility with consultation of respective departmental head. The coordinator is the most important functional organ of HSE in the field. He remains fully aware of all operational activities, its associated hazards and the preventive measures in place at their respective facility. He must be aware of usage of all available resources to ensure safe working environment, house keeping and implementation of HSE procedures. Such procedures include work permit system, site procedures, site emergency response procedure, incident and near miss reporting, etc.

There is an HSE Site Committee, at PSO too which investigates reviews and prevents accidents at various company facilities. It comprises 3-4 members in addition to HSE Coordinator. However it depends upon the size of the site/area.

Role of HSE Site Committee:

- Investigation and review of all accidents including personnel injuries, occupational illness, damages to equipment and/or environment, as well as potential accidents
- Makes recommendations to the management to prevent recurrence of accidents.
- Carry out inspections at worksite to prevent incidents.
- Keep the employees informed on HSE actions and progress.
- Develop HSE plans and monitoring progress.



Work Scope & Progress

Following table gives an overview of the areas that are addressed by PSO's HSE department and the progress in each area is shown with respect to the last year:

Areas	Last Year	This Year
Environmental Management Systems	1 facility ISO – 14001 certified i.e. Keamari Terminal – C	4 more facilities ISO – 14001 certified i.e. Mehmmod Kot, Machike, LMT Korangi and Central Lab at Keamari
Environmental Friendly Products	Introduction of Green XL Diesel and Premier XL Gasoline	Introduction of ethanol blended fuel at COCO outlets in Karachi, Lahore and Islamabad Continued emphasis on product innovation and agreements with suppliers to reduce our environmental footprint
Environmental Projects	Initiated major environmental projects worth Rs. 0.3 million.	Initiated major environmental projects worth Rs. 1.15 million.
Environmental Awareness	HSE related seminars, training sessions, workshops and publications	Continued with HSE related seminars, work shops, training sessions for 1800 employees and business partners. HSE alerts and publications were also developed and distributed among employees and other business partners
Occupational Safety	5,422,997 operational man hours without any lost work day. The incident rate was 1.106.	5,383,669 operational man hours without any lost work day. The incident rate was 0.669%

Environmental Management Systems

International Environmental Management System (EMS) standards are rapidly becoming a key ingredient in strategic business planning. Today's most successful multinationals have integrated the EMS structure within their business management system. The implementation of an EMS into business operations increases internal efficiency, opens communication with external parties, and reduces management risk.

PSO is attuned to potential safety, health and environmental impacts of its operations and activities. In keeping with our policies, PSO has implemented a health, safety and environmental management system and related standards to address these potential impacts and to carry out operations and activities in a manner that is protective of human health and the environment.

This environmental management system at PSO is designed to make health, safety and environmental care an integral part of all company projects and a responsibility of all employees. It allocates appropriate resources and provides the training necessary to ensure the attainment of health, safety and environmental objectives and targets of the company.

ISO 14001 Certification for Environmental Management Systems (EMS)

By 2007, five PSO facilities (Mehmmud Kot, Machike, LMT Korangi, Keamari Terminal – C and Central Lab) have third-party verification of the environmental management system according to the ISO 14001 standards. At these facilities, all the processes have been designed in such a manner that they not only remain environment friendly but their performance is measured and continual improvement targets are set for performance improvement.

ISO 14001 assist our managers in analyzing the environmental and safety risk involved within the total business system through review of all the organization's activities, products and services.

Product Stewardship

Product stewardship is a product-centered approach to environmental protection. Also known as extended product responsibility (EPR), for reducing the environmental impacts of products.

At PSO we recognize that as product manufacturers and marketers we must take on responsibilities to reduce the environmental footprint of our products. Without serious producer commitment, we as a country cannot make significant progress toward improved resource conservation and a sustainable economy.



Environmental product stewardship at PSO fostered product and market innovation, and provided customers with more value at less environmental impact. The company is pursuing with Green XL plus diesel, a differentiated diesel product, with its special green burn additive having diesel fuel additive & combustion improver technology helps in keeping the engine clean, and the environment green. It reduces black smoke dramatically, enables quick start ups and minimizes exhaust emissions that results in less pollution & greener environment. The reduction in black smoke translates into improved power & efficiency for the consumer. Moreover, reduced foaming while filling Green XL plus Diesel results in less spillage, quicker filling.

Apart from the environment friendly diesel and gasoline, PSO also became the first and only OMC to introduce ethanol blended fuels at its COCO outlets in Karachi, Lahore and Islamabad.

Moreover, PSO is constantly working on improving the quality of our lubricants. This shall have a significant impact in reducing emissions of carbon dioxide, carbon monoxide, nitrogen and sulphur dioxide. PSO is also working with OEMs for lubricants that further support development of internal combustion engines.

PSO also has fuel agreements with local refineries and international supplies for supply of lead free motor gasoline and diesel.

As a policy, PSO discourages its suppliers the usage of substances that cause or are suspected to cause harm to human health or the environment.

Occupational Safety Program

We have many business priorities, but there is none greater than a safe work environment. Occupational health management system involves predicting vulnerabilities, promoting good health and protecting the human resources at work place. The company believes that any occupational injury or illness is unacceptable and are committed to continuous improvement of our health and safety performance.

We also expect our employees to take individual responsibility for their own health and safety and to exhibit and encourage safe work behaviors. New employees are required to be apprised of the applicable safe work practices and regulations prior to beginning work at any PSO premises.

The company has its separate medical policy which constitutes a framework for management action with the preventive and curative medicine covering the whole medical program.

During FY 06-07 the company organized medical camps aimed at health awareness, first aid, emergency response training and evacuation drills at offices, installations and terminals, issued a number of HSE alerts particularly on occupational health, conducted workshops on use of personal protective equipments (PPEs), material safety data sheets (MSDS) for handling of various material at facilities and organized HSE days at PSO facilities all over the country.

(Please refer to **Annexure IV** for a sample MSDS)

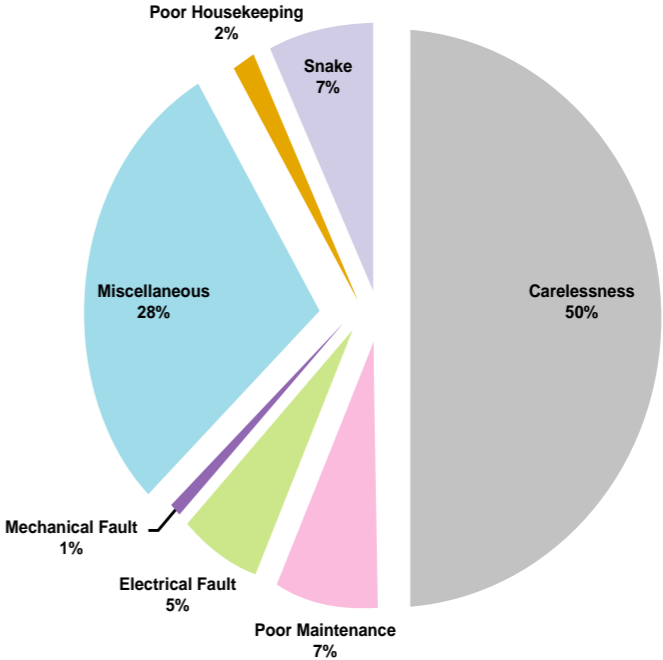


Occupational Incident Analysis

The company achieved 27.21 million safe operational man-hours without any lost work day from July 2002 to June 2007. The incident rate remained 0.669% for the (FY 06-07).

The minor incidents reported at PSO were 130 excluding the incidents at contractor's end. The major cause identified was carelessness.

Incident Cause Analysis



Contractor Safety Program

The purpose of Contractor Safety Program is to set out standards to which all contractors who work for PSO must adhere to. PSO advises the contractors on best practices to achieve the required standards. Contractor HSE program is an extension of the corporate HSE policy which expects that the contractor will demonstrate compliance with the applicable PSO site-specific requirements and the relevant rules and regulations of Pakistan.

PSO has developed a “Contractor Safety Management Standard” (CSMS) to protect both PSO and its contractor’s personnel from work related injuries and fatalities. It is also meant to ensure that all the activities are carried out in an environment friendly manner thus limiting the chances of any environmental hazards.

CSMS is supported by Codes of Practice (CoP), circulars or alerts, HSE booklets and industry practices / guidelines. This is to ensure the applicability of standards operating procedures for managing contractors’ HSE performance at all PSO sites.

Furthermore, PSO strongly encourages its contractors to conduct regular HSE inspections and audits on their equipment as well as monitoring safe and environment-friendly work practices of its employees.

Implementation of CSMS

The implementation of CSMS is divided in 3 phases:

Phase 1: PRE-JOB ACTIVITY

After the award of contract a meeting is held with the contractor to review the work plan, all potential hazards. This meeting also entails inspection of equipment

and tools readiness. (The Pre-Job Activity Checklist is provided in **Annexure I**)

Phase 2: INTERIM EVALUATION PERIOD

PSO conducts an interim review of the contractor’s compliance with the company’s HSE requirements. Besides ensuring contractor safe work, the other purpose of this step is to verify that the contractual HSE obligations and conditional acceptance items, if any identified in the pre-job activity, are implemented by the contractor.

The interim evaluation consists of:

- Safety Inspection Checklist and
- Safety Program Checklist.

The safety inspection checklist consists of seventeen groups of questionnaires such as house keeping, personnel protective equipment, fire prevention and fire protection, etc. Each of these individual categories has several check items.

The performance rating of each category is summarized on the interim evaluation checklist and all deficiencies are communicated to the contractor to be rectified immediately. Negligence in taking corrective action or insufficient corrective action results adversely in the final evaluation conducted by PSO HSE officials. This may result in issuance of warning, personnel termination, contract suspension, at worst, contract termination.

Phase 3: FINAL EVALUATION

The HSE performance of each facility is evaluated on quarterly basis in order to improve and establish HSE culture at facility. The key performance indicators for the performance evaluation are as follows:

- Risk assessment
- Personal protective equipment (PPE) Compliance
- SOP compliance
- Incident reporting and corrective actions
- Employees training
- Emergency response exercises
- HSE audit Observations
- Housekeeping

The facility in-charge is responsible for the compliance of health, safety and environmental aspects at their facility as it is the part of their Key Performance Indicators (KPIs). (Please refer to **Annexure - II**)

Safety Meetings

PSO and the contractor jointly conduct safety meetings on a regular basis. The meeting is intended to provide ongoing training and communication of HSE issues. This safety meeting is recorded and documented.

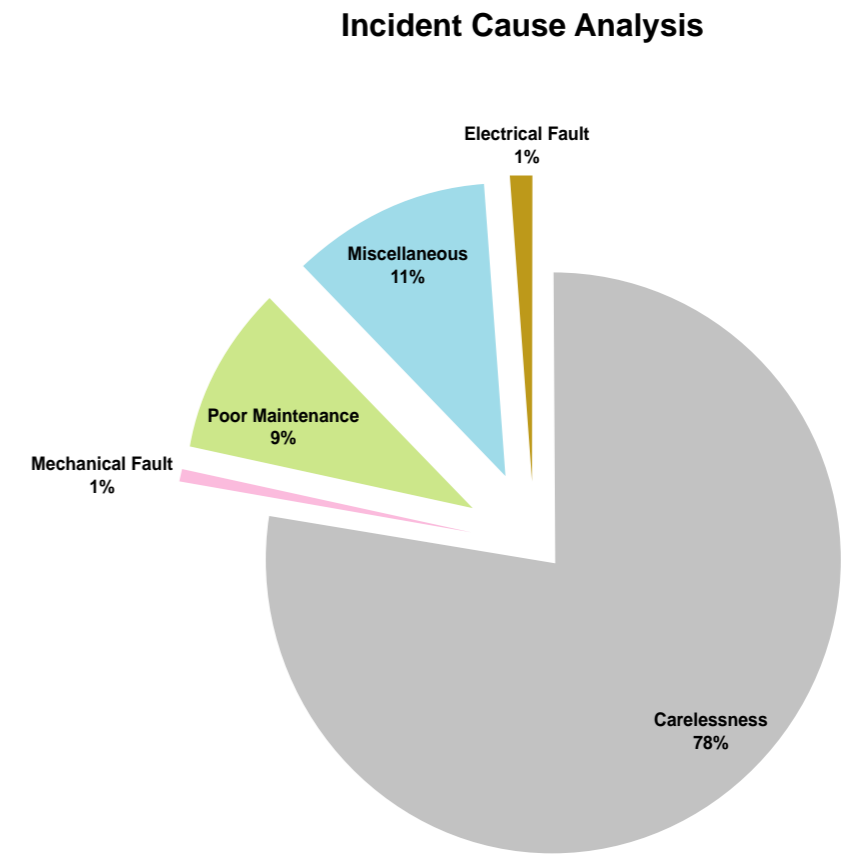
Incident Investigation and Reporting

All occupational injuries, accidents / incidents and near misses associated with the contractor’s on-site work are required be reported to PSO immediately.

The record is maintained in accordance with Occupational Safety and Health Administration (OSHA) requirements.

Contractor Incident Analysis

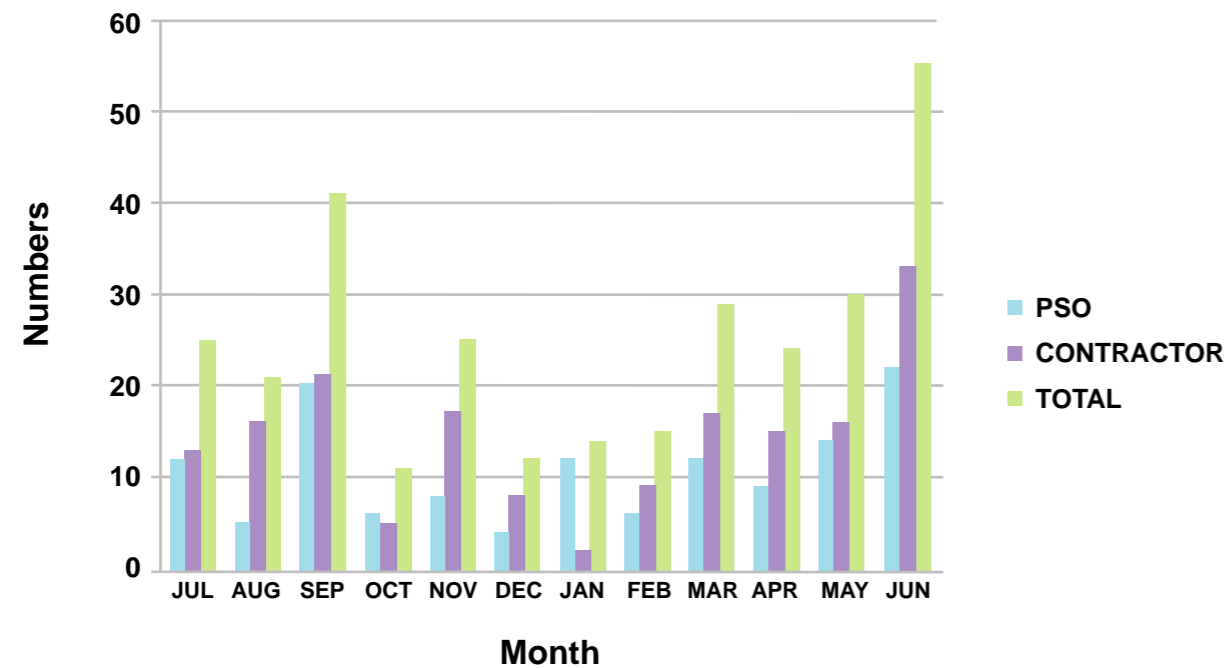
172 incidents were reported at the contractor’s end. The root cause identified was carelessness on behalf of the contractor.



Incident Analysis - PSO Employees & Contractors

Summary Incident (FY 06-07)

Months Years	July 2006	Aug 2006	Sep 2006	Oct 2006	Nov 2006	Dec 2006	Jan 2007	Feb 2007	Mar 2007	Apr 2007	May 2007	June 2007	Total
PSO	12	5	20	6	8	4	12	6	12	9	14	22	130
CONTRACTOR	13	16	21	5	17	8	2	9	17	15	16	33	172
TOTAL	25	21	41	11	25	12	14	15	29	24	30	55	302



Emergency Preparedness

Contingency planning and emergency response are key components of PSO's HSE management system. All facilities have processes in place to identify potential HSE incident risks, develop plans to address crisis scenarios and test the plans on a regular basis.

PSO always ensure that employees remains well-equipped and trained to respond differently to these different threats by:

- Ensuring that emergency response plans (ERP) for each facility are in place, and updated, completely understood.
- Ensuring that necessary resources for response to ERP are defined and are readily available and tested periodically. (Please refer to **Annexure III-A and III-B**)
- Ensuring that practical exercises are conducted to evaluate the applicability of emergency response plans and resources.

Emergency Response Plan

Purpose

We endeavor to ensure that:

- All personnel, environment and property at PSO facilities are given the maximum protection from unforeseen events.
- All PSO employees and associated personnel are aware of their correct response in the event of an emergency.
- All company personnel understand the importance of this plan and receive appropriate training.
- Direction and assistance is provided to PSO personnel enabling them to effectively manage all emergencies.

Scope

The scope of the emergency response plan is to establish and maintain the procedure for identifying the potential hazard and responding to any abnormal, accidental and emergency situation at any PSO facility. These plans define the positions and responsibilities of facility staff in the event of any emergency and outline the actions they should take in the event of any threat to the people working, environment and company installation.



Fire Drill at PSO House

Emergency Response Team (ERT)

Emergency Response Team (ERT) comprises trained facility staff. ERT works in close cooperation with the Emergency Response Coordinator to implement and improve the Emergency Response plan.

Specific HSE plans are established by facility, in case of any new projects or modifications at the facility, in consultation with the HSE Department

Emergency Response Exercises

Emergency response exercises are effective tools to analyze the employee's awareness and response as well as the fire fighting system capability. In exercising the ERPs it is taken into account that minimum damage is incurred to the environment by controlling spill, fire, incident control etc.

ERPs are carried out at all PSO facilities on fortnightly basis and it has also become part of HSE audit to invoke ERP drill at the facility for observing the shortcomings and to measure the response time.

HSE Initiatives 2007

Energy Conservation Measures

1. Green Stations

PSO has initiated “Green Stations” throughout the country. The purpose is to develop environmental friendly retail outlets. At green stations, the IN and OUT signs which were previously on KESC have now been replaced with reflective ones. Also the tube lights of blue bars are now being replaced with the light emitting diodes (LEDs). These initiatives resulted in 75% reduction in power consumption.



2. Solar Energy System

PSO believes in promoting projects based on renewable energy. In this regard PSO initiated a project of installing solar energy system at its retail outlet which is also declared as Green Station by PSO. The purpose of this project is to utilize natural resources to generate electrical energy without damaging the environment.

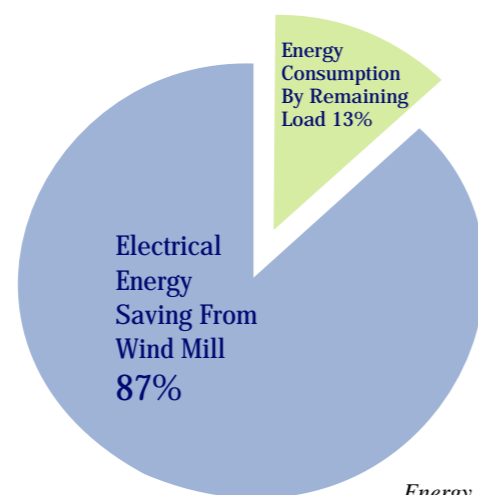


Solar Power at PSO Station

The system generates **50 KWH** energy every day, which caters to almost 37 % of the total lighting load of the outlet for 11 hours per day. The installation of solar system has resulted in saving **18 MWH** of electrical energy in a year.

3. Windmill

Windmill is another initiative of PSO for promoting renewable energy projects. The windmill is installed at Buffer Oil Terminal (BOT) that utilizes wind and generates electrical energy. This system caters office lighting load, which is 87 % of the total office lighting load, for 8 hours. After installation of windmill, PSO saves electrical energy of **7.92 MWH** in a year.



Energy Conservation Graph

Environment Safety Measures:

i. Reduction in Product Spills

The 2007 data shows that we are continuing to make progress in reducing the number of oil spills, most of which occur on land. In FY 06-07 the total oil spill at various facilities was 94.5 liters.

PRODUCTS SPILLED AT VARIOUS FACILITIES (JULY 06 - JUNE 07)

S. No.	Product Spill	Total (Liters)
1	PMG	2.5
2	HSD	25.5
3	FO	1.5
4	HSFO	1
5	Jet A-1	53
6	Chemical	11
TOTAL		94.5

ii. Gas Leakage Detection System at CNG Stations

As per Oil Gas Regulation Authority's (OGRA) requirement, approximately all PSO (company and dealer operated) CNG stations have a gas leakage detection system installed. This ensures prevention of any fire or other related hazards on the respective stations.

iii. Installation of Oil Water Separator at Retail Outlet

PSO installed state of the art oil water separator at its company operated retail outlet. The purpose of this installation is to reduce the liquid affluent discharge from the car servicing area to the public drainage system. Prior to the installation of oil water separator, it was found from the test result that the sample of discharge contained 3530 mg/l of oil and grease which has been reduced to 10 mg/l which is 99 % reduction. PSO has further plan to install automatic car servicing facility along with the oil water separator to limit the effluent discharge from the cars to the drainage system which is another step of preventing environment.



Oil Water Separator

Test Result Sheet of Affluent at PSO COCO Outlet (Ittehad)



GEL/LAB/014
ISSUE : 2
PAGE 1 OF 1

CHEMICAL TEST REPORT

Report reference No.: GEL/LAB/5383 Date: 29.06.2007
Name of Clients: Water Engineering & Management Services.
Address: Suite 4, 34, -C, 21st, Commercial Street, Phase-II Ext. DHA Karachi-75600 Telephone No.: 5895802
Nature of sample: Waste Water
Date of sample received: 29.06.2007 Grab/Composite:
Date of sample collection: Sample collected / sent by: Collected and supplied by Client (PSO - Service Station Ittehad - DHA)
Date of completion of analysis: 29.06.2007

S.No.	Parameters.	Units	NEQS	Concentration	Method	Remarks.
1	Total Dissolved Solids	mg/l	3500	898.0	TDS Meter	
2	Total Suspended Solids	mg/l	400	37.0	Hach Method 8006	
3	Grease & Oil	mg/l	10	7.0	Solvent Extraction	

NEQS= National Environmental Quality Standards.

QA Procedures conform to the requirement of ISO 9002.
This report is not valid for any negotiations.

1 Sample analyzed by: Moohsina Zubair
2 Verified by: *[Signature]*
3 Signature of incharge of the environmental laboratory: *[Signature]*
Name: Muhammad Qadiruddin
Designation: GM Karachi Lab
Date: 29.06.2007



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Industrial Area, Karachi
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Fax: (92-21) 5113806
Email: karachi@gel.com.pk

Lahore
2nd & 3rd Floor,
100 - Commercial Plaza, Main
Cavalary Ground, Lahore Cantt.
Ph: (92-42) 666416-7
Fax: (92-42) 6661281
Email: lahore@gel.com.pk

Islamabad
Office No. 304, Kiran
Plaza, Block 13-B, F-8
Markaz, Islamabad
Ph: (92-51) 2617084-5
Fax: (92-51) 2253722
Email: isd@gel.com.pk

Consumer Safety Measure:

Brake Fluid Testing

Failure of brake fluid can cause the failure of brake system, which could be a cause of accident resulting in threat to human lives and at the same time to the environment. Having consumer safety at the core of PSO's operations, the company provides facility to its customers for brake fluid testing. This test is conducted free of cost at our retail outlets through our network of Mobile Quality Testing Units. Through the test results customers are informed about the status of the brake fluid and guided accordingly.



Brake Fluid Testing

Work place Safety Measure:

Intelligent Fire Detection System

During FY 06-07 old conventional fire detection system was replaced with an intelligent fire detection system at PSO head office and our facilities which includes Lubricant Manufacturing Terminal (LMT) too.

Employee Wellbeing Measure:

Water Filter

As mentioned earlier, PSO gives due importance to its employees at every level. A step towards the employees' wellbeing is the installation of water filter plant at PSO facilities i.e. terminals, depots, aviation stations, LPG plants, blending

plants and retail outlets There are three main sources of drinking water supply at PSO facilities;

1. Ground Water
2. Local Water Supply System.
3. Tankers

The drinking water sample is collected for testing at laboratory. Ground water is tested once a year for microbial & chemical constituents while piped & non-piped system of supply is checked bi-annually for microbial constituents and once in year for chemical constituents.



Drinking Chemical Test Report of a PSO Facility

☎ 042-9212679

PUBLIC HEALTH ENGINEERING DEPARTMENT PUNJAB
2-LAKE ROAD, LAHORE.

CHEMICAL ANALYSIS REPORT OF WATER



Source & Depth TUBE WELL--	Laboratory No. C-1/07/217
Location: WATER SAMPLE FROM PSO DEPOT: HABIBABAD ...	Place: HABIBABAD ..
	Dist. & Tehsil:- HABIBABAD ...
	Date of Analysis: 04-12-2006
Date of Collection -----	Date of receipt in Lab : 03- 12- 2006
	Collected By:SENDING AGENCY ..

Sl. No:	Parameters.	W.H.O. Desirable Levels	W.H.O. Max: Permissible Levels	Results mg/l
1.	Temperature			22C°
2.	PH	7.0-8.5	6.5-9.2	7.90
3.	Odour	Unobjectionable	Unobjectionable	ODORLESS .
4.	Colour	5 Units	50 Units	COLORLESS .
5.	Taste	Unobjectionable	Unobjectionable	TASTELESS ..
6.	Turbidity ppm Silica Units or N.T.U.	5 Units	25 Units	---
7.	Total Dissolved Solids	500	1500	860.00
8.	Calcium	75	200	32.00
9.	Magnesium	50	150	67.00
10.	Total Hardness mg/l as CaCO ₃	100	500	350.00
11.	Total Alkalinity mg/l as CaCO ₃			240.00
12.	Chloride	200	600	174.00
13.	T.Iron .	-	-	--
14.	Conductivity um/cm or us/cm			1230

REMARKS:- CHEMICALLY FIT ON THE BASIS OF PARAMETERS TESTED

[Signature]
RESEARCH OFFICER
Public Health Engg. Dept. Lahore.

HSE Audit

Audit Scope

Annual HSE audits are generally divided in two segments:

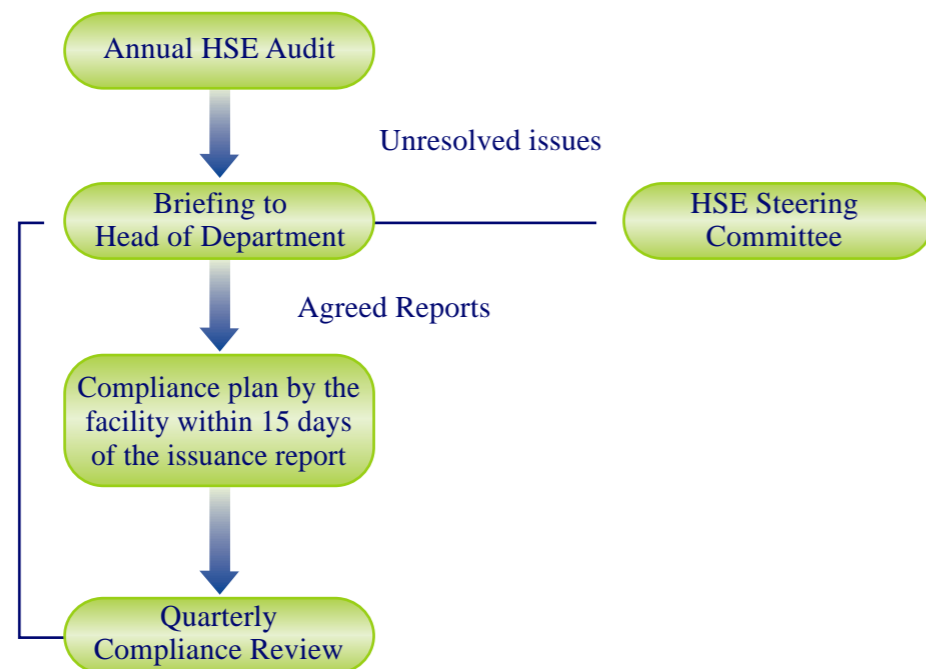
1. Occupational health and safety management systems (OSHMS)
2. Process & Field Audit

Audit of OHSMS is primarily a document desk audit where safety performance of the facility is assessed in terms of its incident and accident trend analysis, near miss and incident reports, risk assessments, training and awareness initiatives taken by the facility to improve its HSE performance. Extensive interviews of employees and contractors are conducted in this segment to distinguish actual from the reported.

Process or field audits are based on established HSE checklists and identification of inherent or process safety risks in the facility. Generally a severity rating is assigned to every identified risk so that its mitigation plan could be developed accordingly. Different factors which contribute to the overall safety rating of the facility are equipment aging and maintenance, inherent risks like unavailability of emergency exits, fire extinguishing apparatus, work procedures in hazardous zones and emergency response planning.

Audit Cycle

Audit cycle comprises different stages for ensuring complete compliance on the findings.



Audit Results FY06-07

S. No.	Facility Description	KPI Targets	Achievements
1	NVROs	300	317
2	CNG Stations	60	62
3	Depots / Terminals / Aviation / LPG Plants	20	49

HSE Awareness

HSE Training

PSO believes that all personnel whose work could affect the environment and safety of the site must have, and maintain, the necessary knowledge and skills to execute their job functions in a manner consistent with the environment friendly and safe operation of the facility.

HSE department at PSO is responsible to arrange and facilitate training sessions at PSO house and various facilities. Following table shows the training targets and achievements:

S. No.	Course Description	KPI Targets	Achievements
1	First Aid Civil Defense Training Sessions at PSO Facilities	03	05
2	Accident Investigation Training Sessions	03	03
3	Material Safety Data Sheets (MSDS) Awareness Session	05	10

Further to the above stated training sessions, HSE department carried out several seminars and events. The seminars mostly had focus on employee well being. Whereas other events revolved around occupational safety as fire drills, etc. Following are the noteworthy seminars and events:

1. Mutual Aid Emergency Response Plan (MAERP) at LMT
2. Basic Life Support Session at PSO House
3. Obesity, Diabetes Prevention Seminars at PSO House
4. Evacuation drills at PSO House
5. HSE days at eight locations
6. HSE Forum (this involved all OMCs and refineries)

HSE Publications

In order to create awareness among all stakeholders on HSE issues, hands-on information booklets have developed on different business lines which also form a part of HSE training curriculum.

Noteworthy booklets developed by HSE department in FY 06 – 07 are mentioned below:

- Construction safety Booklet
- Lubricant Safety Booklet
- Fire Fighting Safety Booklet
- Aviation Safety Booklet
- HSE Manual (Revised Version)

This Corporate Environment Report is also one of the key reports of HSE department.



Awards & Accolades

Efforts of the company in the field of Health, safety and environment and community involvement have continued to be recognized through various awards in the year FY 06 - 07.

The major prestigious HSE awards won by the company are:

- 1st CSR & Environment National Excellence Award 2006 by Help International (HIWT)
- 2nd Health & Environment National Excellence Award 2006 by Help International (HIWT)
- 3rd Annual Environment Excellence Award 2006 by National forum for Environment & Health
- HSE excellence award 2006 by National forum for Environment & Health.
- Best HSE practices Award 200-07 by ILO/EFP



Noteworthy HSE Awards



Pakistan State Oil

Corporate

Social

Corporate Social Responsibility

Responsibility



Corporate Social Responsibility

Section Structure at a glance:

1. Overview
2. CSR Policy Statement
3. CSR objectives / Guidelines
4. CSR Committee
5. Core Thrusts
 - a. Education
 - b. Health care
 - c. Community Building
 - i. Special Children Welfare
 - ii. Women Empowerment
 - iii. Sports Development
 - iv. Relief Activities

Overview

We at PSO believe that Corporate Social Responsibility (CSR) is about making a difference. A difference that is able to permeate the very fabric of society towards uplifting the economic well being of the people wherever they are.

Pakistan State Oil is proud of its long-standing tradition of contributing to society and the nation. Growing from a government department in the early 1970s to where it is today as a major corporate heavyweight on Pakistan's Stock exchanges, Pakistan State Oil has never shirked from its social responsibilities. Heeding calls from its various stakeholders for assistance in times of need, Pakistan State Oil is synonymous with nation-building and community contribution.

Pakistan State Oil is seriously committed to its social responsibilities which is evident in its efforts towards assisting the needy and less fortunate. Pakistan State Oil champions three major platforms. They are education, health care and community building which entails activities for women empowerment, children welfare and relief efforts during and after natural calamities. Within these three major platforms, the company carries out various activities that bring about a value proposition to all parties concerned.

As we celebrate 60 glorious years of nationhood, PSO will continue to play its role in contributing towards the nation's economic progress and prosperity beyond tomorrow. As an enabler, PSO will continuously touch as many lives as possible, not only improving the lives of individuals but the progress of nation.

CSR Policy

“PSO shall undertake social, philanthropic or community development programmes which are aligned with our business strategies or that will benefit the broader interests of the community.”

CSR Guidelines

1. Associating to a cause which is in-line with the identified sectors that include:

- a. Education
- b. Health Sector
- c. Community Building
 - i. *Children Welfare*
 - ii. *Women Empowerment*
 - iii. *Sports Development*
 - iv. *Heritage Preservation*
 - v. *Relief Activities*

2. Credibility and repute of the charity organization seeking assistance.

These objectives serve as useful guidelines for PSO in the evaluation of proposals received from our various stakeholders for CSR projects, programmes and activities.

CSR Committee

The structure of CSR Committee at PSO comprises GM-T&OD as the chairman of the committee, GM-HSE&SS, DGM-AP and two executives as members of the committee. The committee inspects the financial assistance requests of various organizations and recommends to the Board for approval in light of the CSR objectives and guidelines established at PSO.



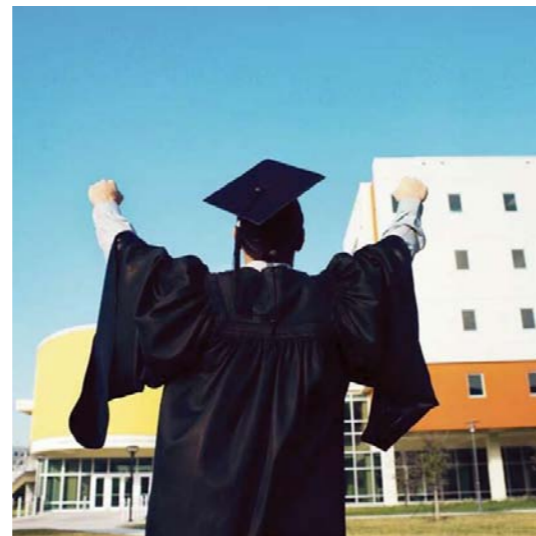
CSR Committee with Managing Director

Core CSR Thrusts

Within the platforms of education, health care and community building, PSO carries out activities that create a value proposition for all parties concerned.

Education

PSO has undertaken a wide range of initiatives to support several educational programs. Such initiatives include instituting gold medals, cash awards and scholarships for top students of leading professional institutes including IBA, UET, NED University. At LUMS PSO is in the process of establishment of a chair in the name of Shaukat Raza Mirza and further assists admission of three deserving students on PSO's scholarship every year.



The company financially supports several national institutions to enable education to reach to the under privileged nationwide. With the help of Heritage Foundation, PSO is building two schools in earthquake affected area of Mansehra, whereas

five more schools are in the pipeline in collaboration with The Citizens Foundation.



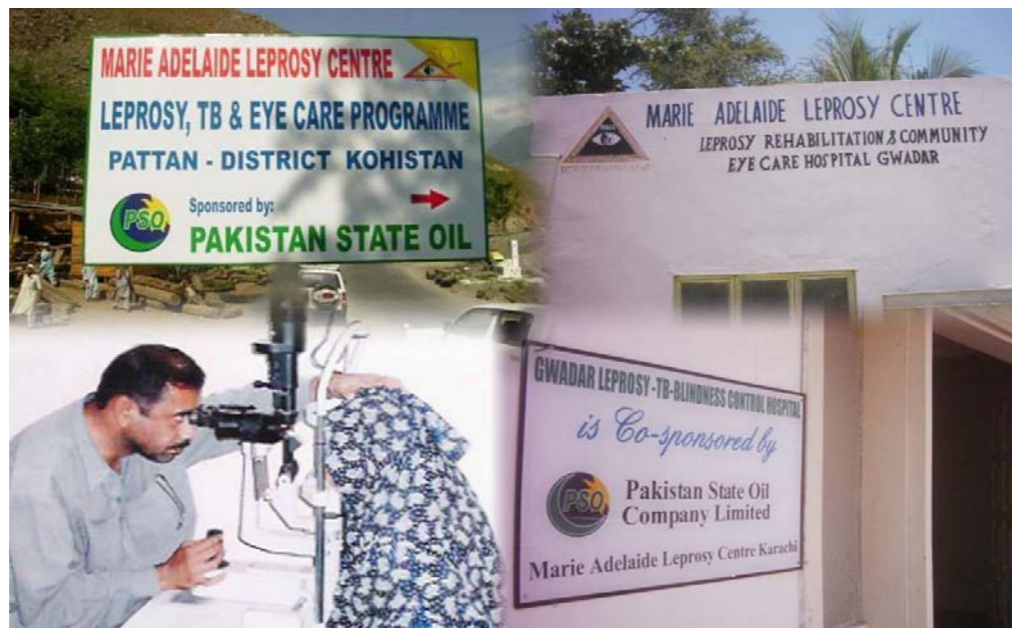
As part of a unique international collaboration to bridge the digital divide and provide self-sustainable skills in Pakistan, PSO joined hands with UNIDO and GMC-TIN, to offer high-end certification level IT & Professional Development courseware free of cost to the people of Pakistan. The scratch cards and CDs to access these courses are distributed free of cost through PSO's dealer network and educational institutions all over Pakistan. PSO's Life Long e-Learning Program sponsored two initiatives:

- PSO Early Childhood Education CD (Targeted at kids between 3-5 years of age)
- Easy Learning Scratch Cards (Adult literacy program-offering 10,000+ certification courses ranging from general management courses to highly specialized software courses like CISCO, ORACLE, etc.).

PSO has installed various direction signs and traffic signals at major streets and thoroughfares as part of its public service campaign.

Healthcare

PSO partners with various institutions involved in health sector to improve the health status of the society we operate in.



We provide financial assistance on an annual basis to the Marie Adelaide Leprosy Centre (MALC) starting from 2006 for running Leprosy Centre in Gawadar for a period of four years which caters for the population of Gawadar, Pasni and Ormara. Moreover, PSO sponsored the development of MALC's corporate video which was used for fund raising. MALC is one of the oldest charities in the country; operating 170 centers nationwide for free treatment of dreaded diseases

like leprosy, tuberculosis and blindness. PSO has a long association with its organization and committed to support its activities as a CSR initiative.

In the fiscal year 2006 – 2007, PSO also aided Chipa Welfare Association to purchase a fully equipped air conditioned ambulance to enhance the fleet of Ambulance. Chipa Welfare Association provides Free Ambulance Services and Free Medicines to those who are unable to afford irrespective of caste, creed and colour.

To support Civil Hospital Karachi's role in provision of free of cost surgical and medical health relief to the underprivileged, PSO supported Dowites Operation Theater Society (DOTS) in the construction of a state-of-the-art integrated



Operation Theater Complex at Civil Hospital Karachi. PSO funded for the procurement of equipment, fixture and utilities for this Operation Theater.

The company is also associated with Al-Mehrab Tibbi Imdad (AMTI), an organization that treats terminal under privileged patients absolutely free of cost. Al-Mehrab Tibbi Imdad enables the patients to live the highest quality of life possible in the circumstances until the end as defined by the patient's own beliefs and values; pain free in the comfort of home like environment. To aid AMTI in coping with the situation due to its meager resources, PSO generously imparted financial support to them.

To address the healthcare issues in northern areas, PSO supports the Society for Sustainable Development. They have acquired a fully equipped ambulance to operate in the region. Further they intend to set up an out-patient clinic and a mother care clinic. PSO supported them generously in order to organize and run these facilities.



Community Building

Under its community building platform, PSO seeks to enrich the lives of the needy and less fortunate through its sponsorship assistance to NGOs, charitable organizations and welfare institutions. In the sphere of community building, PSO supports activities in the following areas:

- i. Special Children Welfare**
- ii. Women Empowerment**
- iii. Sports Development**
- iv. Relief Activities**

Some of the noteworthy philanthropic contributions of the company in each of the above area are stated below:

Special Children Welfare

PSO has generously supported Institute for Special Children Quetta, the only institute of its kind in Balochistan to upgrade its equipment to facilitate imparting of education to the special children.

Moreover, the company financially assists Pakistan Institute for Deaf Children of rural areas, Kamoke, district Gujranwala. The major objectives of this institute were to uplift the living conditions of the neglected special children by imparting education and vocational skills. So far several hundred students have benefited from this institute. PSO extends financial support to this institute to overcome the maintenance, transportation expenses of this institute and to construct Skill Development Training Center.



On the same lines of helping the special children of the society the company has provided financial assistance to Munir Arshad Memorial Trust that has been working for the poor children of rural areas on modern lines. It aims to develop personality and character qualities inner discipline and control. Every effort is made to broader vision so that they are able to make a positive contribution in development of the country. Here orphans are given free education, while education of the rest is subsidized.

PSO is also associated with Family Education Services Foundation, a non-profit, educational, volunteer organization working in Karachi. They have established a school for the Deaf in Karachi as well as two vocational training centers for Deaf students; one in Karachi which has been running for the past ten years,

and another in Lahore which was opened six years ago. PSO appreciated the commendable community services of Family Education Services Foundation by adopting 10 students and providing their monthly expenditure and also by facilitating them in providing free pick and drop service to needy students by providing free diesel.

PSO supports “Extra Corp”- a project of School of Leadership Foundation (SoLF) which is a Pakistan based non profit organization, enabling and facilitating the project. The aim of the project is to facilitate physically and mentally challenged youth to set up, own, manage and lead a conglomeration of enterprises to economically empower themselves. Extra Corp is the premier umbrella organization which will set up various businesses. The first project taken on by Extra Corp is Extra Cuisine, a German bakery run by 18 hearing impaired young men. The project has been launched in December 2006.

Women Empowerment



In the fiscal year 2006 – 2007, PSO supported Behbud Association, a national NGO working in the field of reproductive health, community development, education, vocational training for the last 40 years, to uplift the underprivileged sections of society.

Moreover, PSO also supports Rashid Memorial Welfare Organization. A pilot project Rashidabad located 30km East of Hyderabad has been launched by this organization. Here an integrated facility is being set up for Education, Health, Vocational Training for females and orphans and for effective implementation of poverty alleviation measures.

Sports Development

PSO has always been at the forefront of promoting various sports at all levels. In such an endeavor, we sponsored the PSO-CNS International Squash Championship 2007, which is a world-class squash event. It was held at the



Roshan Khan / Jehangir Khan Squash Complex. International and National players of world ranking participated in this event. Further more, we were the tournament sponsors of Asian Football Confederation (AFC) held in September 2007 that was arranged by Pakistan Football Federation (PFF). League champions from AFC's eight emerging countries participated in this tournament.



Relief Activities

If there is one thing we take pride in, it is our immediate response to any situation. While it may be impossible to prevent disaster and misfortune from happening, it is possible to provide relief. Infact, we feel it is our duty to do so. The 2007 Cyclone lashed Pakistan's southern coast crippled life in the affected areas specially in Baluchistan. About a million were made homeless by the rain-water and floods. Worst affected areas are Turbat , Gwadar , Pasni, NaseerAbad, Jafferabad, Jhal Magsi, Bolan and Sibi.



PSO as a good corporate citizen as always was on the forefront. On July 13, 2007 two convoys comprising three truckloads for Turbat and two truckloads for Pasni left the company headquarters. They were carrying 3,000 food packets, 500 kitchen utensils, 650 tarpaulin sheets and 30,000 bottles of mineral water. Earlier on July 9, 2007 PSO had dispatched a similar batch of food packets and mineral water to Greshia, 35 km from Khuzdar. This was the first relief to reach this devastated village. Mir Muhammad Naseer Mengal, State Minister for Petroleum & Natural Resources, distributed the goods.



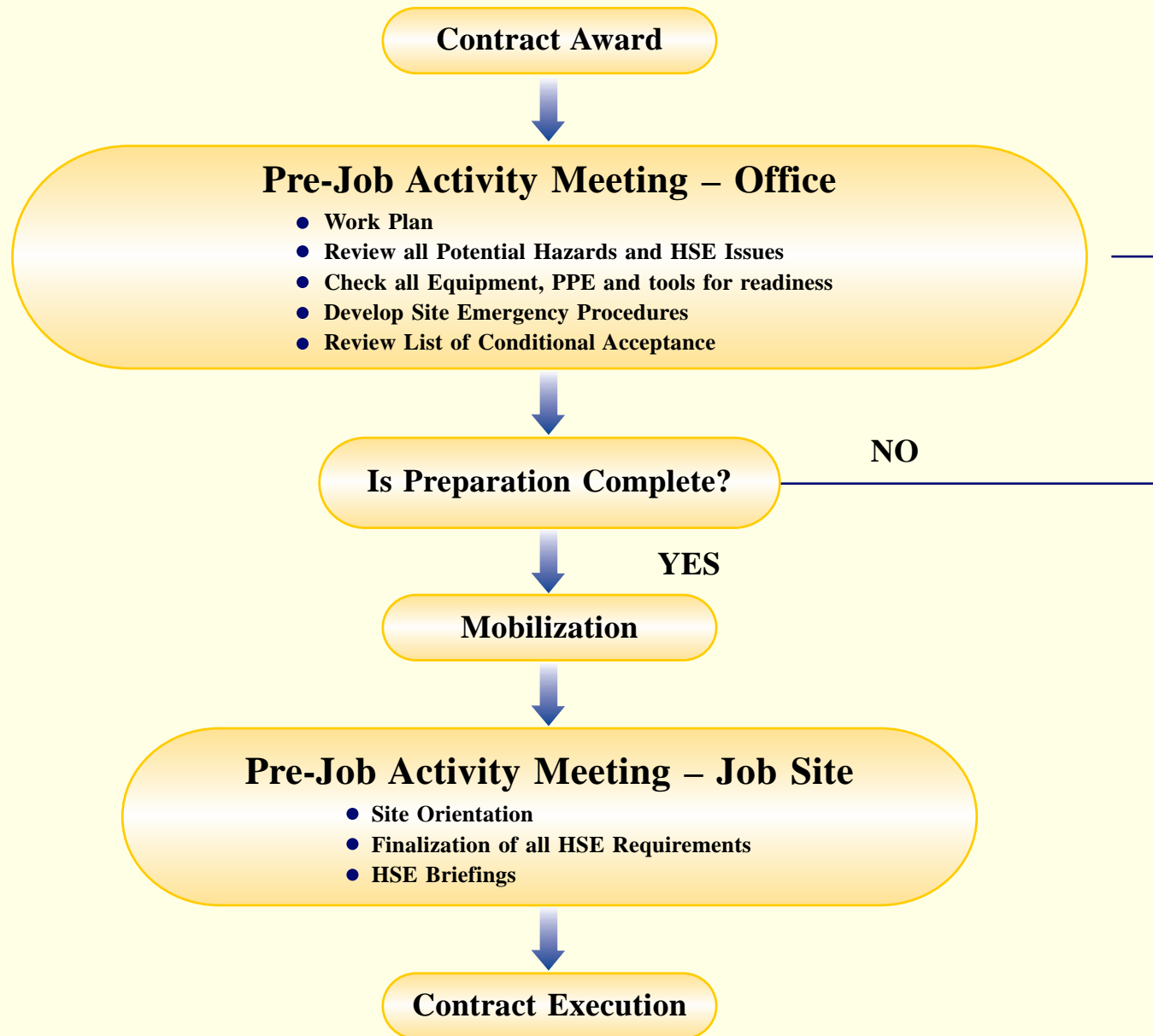
Like in the event of previous natural calamities, PSO staff has been involved in the relief operations from day one ensuring uninterrupted and smooth fuel supplies to the defence forces' aviation fleet operated by Navy, Air Force and Army at Pasni and Turbat airports.

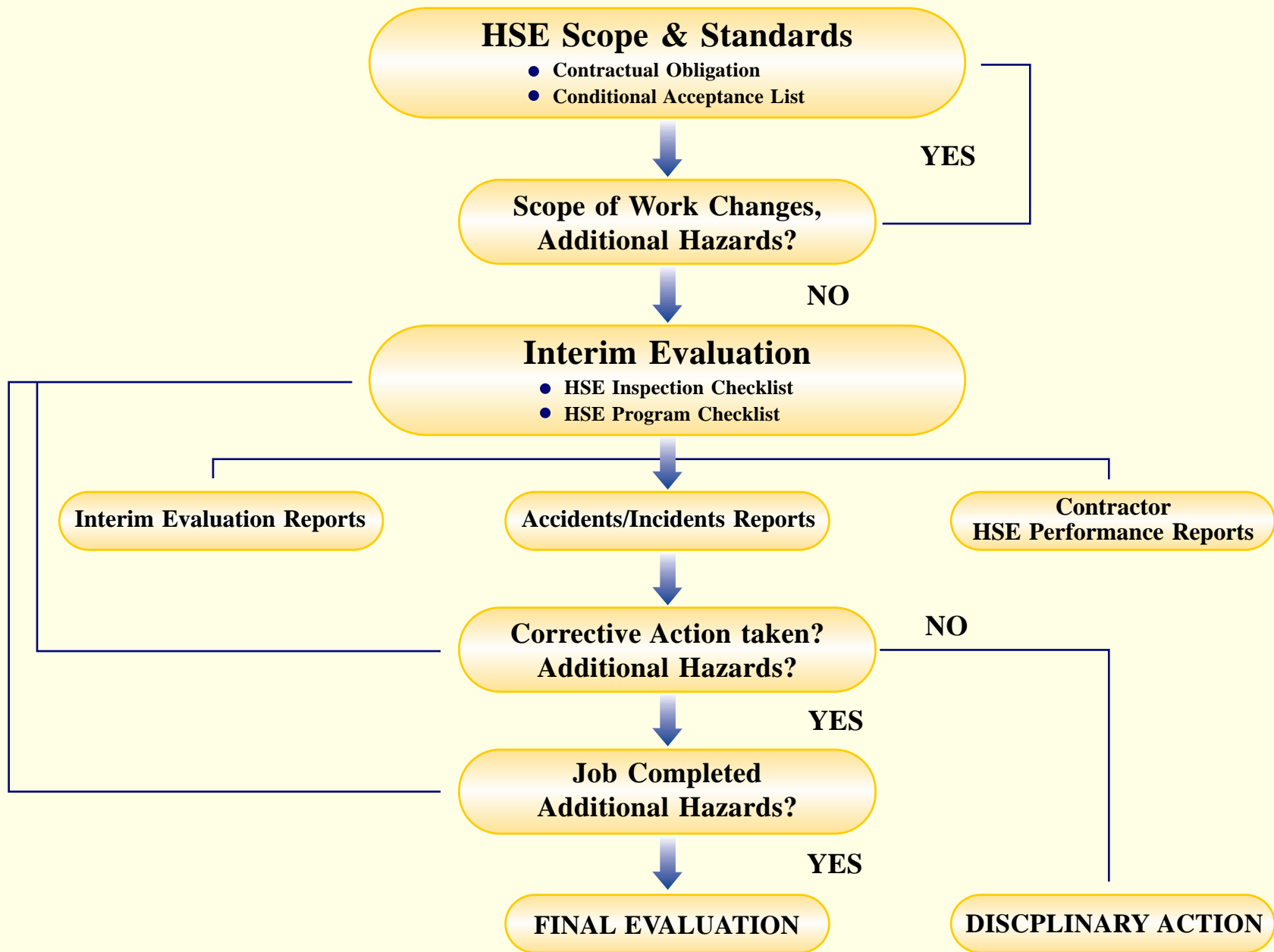
The company donated Rs. 5 million to the President's Disaster Relief Fund.



Pakistan State Oil

Annexes





HSE Performance Criteria

	Objective	Indicator	Monitoring	Frequency	Marks Assessment	Maximum Marks	Annual Marks	Marks Obtained
1	All activities to be subject to hazard analysis and risk assessment	Risk Assessment / Observations During Audit	Compliance Implemented	Quarterly	At the end of the 4th quarter	100	100	% Compliance implemented
2	Employees working safely	Behavior based observations	Employees working safely	At the time of HSE audit	At the time of HSE audit	100	100	% Employees working safely
			PPE Compliance	At the time of HSE audit	At the time of HSE audit	100	100	% PPE compliance
3	Incident reporting and implementation remedial measures	Timeliness of reporting	Incidents reported within 48 hours	On occurrence of incident	At the end of each month	10	120	% incidents reported within 48 hours
		Incident	Number of reports	On occurrence of incident	At the end of each month	10	120	depend on frequency
		Corrective Actions	Implementation	On occurrence of incident	At the end of each month	10	120	% corrective actions implemented
4	Safe and Competent employees	Performance assessment including training needs identification & training records	Performance Assessment	Quarterly	At the end of the quarter	50	200	% performance assessment complete
			Scheduled Trainings	As per schedule	At the end of 4th Quarter	50	200	% scheduled trainings complete

5	Improve safety awareness	Meetings	Staff Meeting	Quarterly	At the end of each quarter	10	40	% employees attending + % Actions arising complete
			Contractors Meeting	Quarterly	At the end of each quarter	10	40	% effectiveness of the meeting
			Site Committee Meeting	Monthly	At the end of each Month	10	120	% employees attending + % Actions arising complete
6	Improve Safety Culture	HSE Audit	Over all findings based on selected criteria	Annually / Bi Annually	At the time of audit	200	200	On the basis of findings
7	First Hand Knowledge of HSE Status	HSE Statistics	Format	Monthly	At the end of the quarter	10	120	Availability & complete form
8	Emergency Properness	ERP	Drill Reports	Fortnightly	At the end of quarter	10	240	Availability & completion of reports
			Live Drill	Annually / Bi annually	At the time of Audit	200	200	Self assessment (% compliance)
9	Housekeeping and facility monitoring	Self Inspection	HSE Inspection Checklist	Quarterly	Quarterly	10	40	Availability & Assessment of Checklist
10	Continuous Improvement through participation of the facility	Initiatives	Format	Monthly	Monthly	10	120	% initiatives in health, safety & environment (one initiative for health, one for safety and one for environment)
TOTAL						700	1980	

EMERGENCY RESPONSE PLAN

Location: Lubricants Manufacturing Terminal

Tel No: 021-5075226

021-5075224

021-5078032

Fax No: 021-5075224-5

IN CASE OF SPILLAGE

S.No.	ACTION / NATURE / MEASURE	RESPONSIBILITIES
1	Leader of this emergency	Plant Incharge
2	Declare emergency using emergency alarm	Plant In charge
3	Suspension of all operational & maintenance activities	Incharge M&R
4	Shut off all pumps / close all valves	Filling operator
5	Constrain the product with the help of sand etc.	Filling operator/USW
6	Collect the product from ground	USWs/Jenetorial Men Power
7	Removal of unauthorized persons	Duty officer
8	Controlling all Traffic	Duty officer/Security Supervisor
9	Precautionary measures to avoid fire	HSE Coord /I/C M & R
10	Cleaning of Oily area / maintain environment	USWs
111	Inform GM (L&C) TEL # 021-9203834 ,DGM (LSM&D) TEL# 0345-8209326	Plant Incharge
12	GM (HSE) TEL # 021-9203819	Plant In charge/HSE Coordinator
13	Inform Local Fire Brigade Emergency # 16, 021 – 5066260	Incharge M&R
14	Inform Local Hospital Tel # 021-5071856,5071856	Plant In charge
15	Prepare the incident / accident report	HSE Coordinator
16	Prepare estimated loss (product, assets, etc) and inform to all concerned mention # 11 above.	Incharge Blending
17	Precautionary measures to avoid reoccurrence / staff briefing.	Plant Incharge
18	Prepare LPR for repair if needed.	Incharge M&R
19	Confirm Isolation of spillage cause and reinstate of operation.	Incharge Blending

EMERGENCY RESPONSE PLAN

IN CASE OF BOMB BLAST OUTSIDE THE PREMISES OF THE INSTALLATION

S.No.	ACTION / NATURE / MEASURE	RESPONSIBILITIES
1	Leader of this emergency	I/C M&R/HSE Coordinator
2	Declare emergency using emergency alarm	Plant Incharge
3	Inform GM (L&C) TEL # 021-9203767	Plant Incharge
4	GM (HSE) TEL # 021-9203819	Plant Incharge
5	Inform local police station Tel# 15, 021 – 5065555/ 5064774	Plant Incharge
6	Inform Local Hospital Tel # 021-5071854.5071856	Plant Incharge
7	Control public / effected area	Duty Officer
8	Arrange to send the fire extinguishers at site for fire precautionary measures	Plant Incharge/HSE Coordinator
9	Evaluate injuries and inform local Hospital Tel # 021-5071854.5071856	Plant Incharge
10	To call Ambulance Tel #115, 021 - 5064507 for shifting of injure persons	Plant Incharge
11	Warn / disperse public from the scene.	Duty Officer/Security Supervisor
12	Warn public to avoid smoking	I/C M&R/HSE Coordinator
13	Suspension of all operational & maintenance activities inside the Terminal. Shutoff all the pumps and isolate all valves.	Duty Officer / Filling Operator
14	Close down main gate of Terminal.	Security Supervisor.
15	Exercise more vigilance about safety / security of Terminal and product.	Plant Incharge
16	Inform local Fire Brigade Emergency Tel # 16, 021 – 5066260	Plant Incharge
17	Escape of burned people & shift to Hospital Tel # 021-5071854.5071856	Duty Officer / Security Supervisor
18	First aid to injured persons	Accounts Assistant
19	Stop all operational & maintenance activities immediately	Duty Officer
20	Control unwanted persons	Security staff
21	Important records / SDD, cash etc will be shifted to a safe location.	Accounts Officer



PAKISTAN STATE OIL COMPANY LIMITED

HSD

MATERIAL SAFETY DATA SHEET

MSDS No. 2

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, in clouding carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, and death.

CHRONIC EFFECTS AND CARCINOGENICITY

Similar products produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposures has not been determined - see Section 11 Toxicological information.

IARC classifies whole diesel fuel exhaust particulates as probably chromogenic to humans (Group 2A). NIOSH regards whole diesel fuel exhaust particulates as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash).

FIRST AID MEASURES

EYES

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

SKIN

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops.

INGESTION

DO NOT INDUCE VOMITING. DO not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the last is dissipated.

INHALATION

Remove person to fresh air. If person is not breathing provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT:	> 125 oF (> 52 oC) minimum PMCC
AUTOIGNITION POINT:	494 oF (257 oC)
OSHA/NFPA FLAMMABILITY CLASS:	2 (COMBUSTIBLE)
LOWER EXPLOSIVE LIMIT (%):	0.6
UPPER EXPLOSIVE LIMIT (%):	7.5

FIRE AND EXPLOSION HAZARDS

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

EXTINGUISHING MEDIA

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO₂, water spray, fire fighting foam, or Halon.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

HSE Department

Feedback Form

Dear Readers,

We hope the report explained the HSE & CSR concepts and initiatives of PSO. We would like to continue our efforts to enhance the quality of these initiatives through two-way communications with our stakeholders, and would greatly appreciate hearing your most candid, forthright views and opinions.

1. What is your overall impression of this report?

- Very easy to understand Difficult to understand
 Easy to understand Very difficult to understand

2. Compared to last year's Corporate Environment Report, how would you assess this year's Environment Report?

- Very comprehensive No change from last year
 Rather comprehensive More difficult to understand

3. Which sections of the report were of most interest to you? (Multiple answers)

- CEO's Message
 Health Safety & Environment
 Corporate Social Responsibility

4. Please give us your opinions regarding this report?

5. From what standpoint did you read this report?

- Customer Shareholder/ Investor
 Supplier or other business partners Survey/ Research Institution
 Public Sector School/ Educational Institute
 Corporation/ Organization Media
 NGO Others

Thank you for your co-operation. Please feel free to give us your address and other information, if you wish.

Name	Gender	Email Address	
Address		Telephone	Fax
Occupation (Place of work)		Would you like us to send next year's Corporate Environment Report?	
		Yes	No

Personal information you provide on this questionnaire will be kept in strictest confidence and will be used only as reference for preparation of future PSO Corporate Environment reports. Under no circumstances will your information be disclosed or provided to third parties.

Please send your completed questionnaire to:
Corporate Communications Department
Pakistan State Oil Company Limited
PSO House, Khayaban-e-Iqbal, Clifton, Karachi-75600
Or by facsimile to (92-21) 9203811