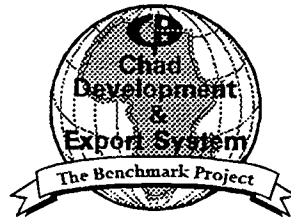


ESSO EXPLORATION & PRODUCTION CHAD INC.



CHAD DEVELOPMENT PROJECT



GENERAL PROJECT SPECIFICATION FOR CAMPS AND FACILITIES

GPS-001

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1.0 INTRODUCTION

Contractor's camp(s) for the Work shall be movable or shall be a fixed, temporary facility, whichever is most appropriate for its size and duration. With prior Esso approval, some distinction may be made between main and secondary camps with regard to level of services. Contractor's camp shall provide life support for essential Esso, Contractor and Government personnel and visitors and shall comply with all governing statutes and/or regulations and living standards of Chad and Cameroon. In the case of workers not accommodated in camps a housing allowance will be paid. As stated, all life support and logistical operations shall be conducted from Contractor's camp. Contractor shall store its permanent and consumable materials, supplies, and equipment within designated areas in or near the Camp--unless Contractor proposes a viable alternative, acceptable to Esso, or is instructed by Esso to locate this area in another location.

1.1 Camp Location

Camp(s), office facilities and storage areas should be in close proximity of the Work in order to adequately support the Work effort.

The exact location of camp(s), office facilities and storage areas will be agreed on between Esso and the Contractor after the award. Land will be obtained by Esso for use as camps by the contractor. The process of land acquisition is described elsewhere.

1.2 Camp Requirements

Camp(s) shall comply with all general project specifications including but not limited to General Security and Safeguards, Water Wells, Potable Water Treatment, Wastewater Treatment, and Landfill and Incinerator Design and Operation.

1.3 Camp Administrator

Contractor shall employ a Camp Administrator (with prior Esso approval, full or part-time, e.g. may be a combined Camp and Catering Administrator) with sufficient experience and authority to solve, in an expeditious manner, any problems or allegations which may arise with



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expeditious manner, any problems or allegations which may arise with regard to the services, whether administrative or operational, covered in any of the specifications.

1.4 Drug and Alcohol Policy

The possession and/or consumption of alcoholic beverages is strictly prohibited. Possession and/or consumption may constitute grounds for dismissal. Drug and alcohol policy statement and implementation plan are provided in the Principal Document.

1.5 Typical Problems/Issues

Contractor shall consider and be aware of typical problems and issues including, but not limited to, handling of domestic or oily water and solid wastes, safe utilization and storage of pesticides, and ongoing monitoring of the quality of drinking and waste water. In addition, awareness of cultural differences, and the project policy prohibiting hunting and fishing in the project area are mandatory.

1.6 Smoking

Designated areas will be available for smoking. There will be no smoking in any of the living quarters.

1.7 Permits

Contractor(s) shall provide all requested details and requirements in support of its permit applications for Work Sites or other facilities. Contractor shall provide written notification to Esso for any deviation to originally submitted requirements so that adjustment can be made to current application.

2.0 CAMPS & FACILITIES

2.1 Scope

This specification applies to design and provision of camp(s) to be utilized during execution of the Work.



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2.2 Construction and Supply Camps

Contractor shall furnish all camps, supplies, and living quarters, and provide all support necessary, including access roads/service, for Contractor personnel, suppliers, Esso personnel and visitors, and government personnel as per Section 1 of the Coordination Procedure - General Execution Requirements.

Contractor shall supply the following facilities and services at each of its camps:

- Nourishing food per Catering Services Specification GPS-002 for residing camp personnel.
- Bag-lunch for all personnel working outside of camp facilities.
- Recreational facility, NOT to include alcoholic beverage service.
- Mail service.
- Laundry services, per Catering Services Specification GPS-002, for residing camp personnel.
- Maintenance and janitorial service, per Catering Services Specification GPS-002.
- Waste Disposal according to Esso waste management facilities specifications and approved waste management plan (as per Coordination Procedure Section 30 - Environmental Management).
- Medical service, per Coordination Procedure 23 - Occupational Health, Medical Facilities and Sanitation.
- Security service in conformance with Esso's General Safeguards and Security Requirements, per Coordination Procedure 25 - Safeguards and Security (S&S) at Work Sites.

2.3 Esso Representative(s) Living Quarters

Contractor shall supply, and include in its contract price, temporary camp and office facilities for Esso personnel described herein and in Section 1 of the Coordination Procedure - General Execution Requirements.



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2.3.1 Base Camps

Living quarters, dining facilities, laundry services, janitorial services and all other services described or listed in specifications in this contract, shall be supplied by the Contractor, in the quantities specified in Section 1 of the Coordination Procedure.

Following are specifics:

- Esso personnel shall be provided with single occupancy quarters which include a complete bathroom in each quarter and which are free of insects, rodents, and vermin.
- Each living quarter shall be complete with heating, ventilation, and air conditioning (HVAC), sink, mirror/cabinet, toilet, shower, lighting, electrical outlets (one ground-fault protected near sink), smoke detector, fire extinguisher, window(s), and locking entrance door. Each living quarter shall be outfitted with screen doors and windows, bed, mattress, pillow, sheets, blanket(s), bath towel(s), chair, desk, lamp, shelving, closet. Bed linens, towels and bath soap shall be changed twice weekly. Each living quarter shall be serviced daily, this to include as a minimum: making of bed, disposing of trash, general dusting, wipe-down of sink/mirror, disinfectant-clean of toilet, broom-clean/vacuum/mop of floor.
- All buildings should be made as insect-proof as possible by sealing the gaps between units and any spaces between air conditioners and buildings. All window screens of a mesh size appropriate for the insects of the area should be in place and checked for tears. Strips 4 cm wide, impregnated with insecticide (permethrin), should be hung in doorways to help with mosquito/fly control in buildings. Permethrin is available from Graniteville Co., Graniteville, SC (803) 663-5261, and other sources.
- Bednets should be provided for each worker and for guards in their tents.



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2.3.2 Offices

Contractor shall furnish offices for Esso's personnel and visitors as required by Section 1 of the Coordination Procedure - General Execution Requirements.

Office space shall be sub-divided to provide the number of private and shared offices specified in the Coordination Procedure. A minimum of 9 m² will be allocated for each individual in an office. In addition, space shall be provided for conference room, work stations, restrooms (male and female, as appropriate), reception and open area(s). The facility shall be equipped with appropriate HVAC, sinks, urinals, toilets, lighting, electrical outlets, fire detectors, fire extinguishers, windows, and locking exterior door(s). The facility shall be provided with standard office furnishings (e.g., desks, chairs, filing cabinets and bookcases), equipment (including drawing racks, water fountain, coffee maker, and photocopier(s) with paper), and all office supplies and project stationery. Janitorial service shall be provided (as applicable from living quarters cleaning detail) on a daily basis.

2.4 Specifics for Contractor Living Quarters

Assignment of living quarters for Contractor personnel (North American, European, Chadian, Cameroonian, and others) are to be based upon general criteria relative to skill level: skilled, semi-skilled, unskilled.

2.4.1 Capacity

The maximum number of persons to each living quarter shall be calculated so that each bed corresponds to a rectangle of 1.6 X 2.3 meters (approximately 5 X 8 ft) with a distance between beds of 80 cm. Triple deck bunks are not allowed in the living quarters.

2.4.2 Ventilation

Fan or HVAC shall be provided to enhance circulation. Windows, vents, and doors shall be protected by screen mesh.



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2.4.3 Doors

Doors shall have unique locks (either keyed or automatic, punch-coded locks) and shall open from within (outwardly).

2.4.4 Floors

Living quarters shall not have a natural ground surface.

2.4.5 Mosquito Netting

All sleeping areas will be equipped with individual mosquito netting. Bednets should be dipped and washed in a solution of cold water with 2.5% deltamethrin or permethrin to provide adequate protection. After washing, the bednets should be air dried before being returned to the sleeping areas.

Mosquito netting shall also be provided for guards in their tents.

2.4.6 Restrooms and Ablution Blocks

Contractor shall provide washrooms and other facilities, as necessary, to satisfy the religious needs and customs of its work force.

Washrooms shall be located and sized based upon camp population and shall include adequate lighting and appropriate numbers of facilities. Separate facilities shall be provided for men and women. As a minimum, the following shall be provided:

- toilets - 1 per 15 persons
- urinals - 1 per 25 men
- shower stalls (stainless steel) - 1 per 10 persons
- washbasins and mirrors - 1 per 4 persons

In general, washrooms shall be constructed in well-ventilated areas, and supplied with an adequate amount of hot and cold water (potable), toilet paper and holders, waste receptacles, and deodorant.



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2.4.7 Potable Water Supply

The potable water supply shall be designed and tested according to standards of the World Health Organization; see Potable Water Treatment, Storage and Distribution (Temporary) Specification, GPS-003. Potable water shall be supplied to all showers and sinks located in kitchens, bathrooms, and offices. All camp taps shall deliver potable water.

2.4.8 Electrical Power

For security purposes, there shall be a redundant (backup) source of electrical power, independent of the primary power source. Camp power shall adequately supply all electrical requirements.

2.4.9 Fuel Storage

Storage of flammable liquids (diesel and gasoline) shall be in above-ground storage tanks located in properly lined and bunkered holding areas. Unless an alternative remediation method is provided for in the Esso - approved Contractor Waste Management Plan, contaminated soil associated with vehicle fueling operations will be promptly collected and stored until it can be properly disposed. All flammable liquid storage areas shall be located a suitable distance from all manned facilities.

2.4.10 Kitchen

See Catering Services Specifications, GPS-002.

2.4.11 Dining Area

All windows and doors shall be protected by mesh screen and shall be kept in good condition. Doors shall be automatically closing (e.g., by coil spring or spring and hydraulic piston.) Dining areas, living quarters, and restrooms shall be located in close proximity to each other.



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2.4.12 Recreational Facilities

Contractor shall provide off-hours recreational facilities for Contractor and Esso employees and camp guests. Facilities may include an area(s) for organized team sports such as basketball and soccer and/or indoor exercise equipment, as appropriate for the size and duration of the camp.

In addition, Contractor shall provide a recreational room(s) to include but not be limited to television(s), VCR(s), satellite dish(s), short wave radio(s), and books and periodicals in appropriate languages.

2.4.13 Control of Insects and Rodents

Pest control is the Contractor's responsibility. Contractor shall utilize insecticides and pesticides approved by the Esso Medical Department.

Insecticides and pesticides shall be utilized in a controlled manner so as to avoid contamination of food and personnel. The Contractor shall emphasize insect and rodent control, making sure that garbage areas are clean. Contractor will take immediate action if a rodent situation should arise in the facilities.

2.5 Aircraft Runway and Heliport

At main camps and storage yards, a helipad is required if there is not an existing aircraft runway located within 30 minutes by ground transport. The camp helipad will be in close proximity to the secured areas of the facility, and be convenient for urgent air medical or security evacuation. Contractor shall present a plan, subject to Esso approval, outlining aircraft availability and emergency transportation plans.

2.6 Communications

A means of voice, fax, and data transfer capability is required, to enable personnel to communicate between the various camps and facilities. Esso intends to provide, (except for early project work activities - i.e. infrastructure and telecom) as part of its overall project support a reliable telecommunications system to provide the above capabilities at each of the project locations. See Coordination Procedure Section 28, Telecommunications.



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2.7 Waste Management

All waste shall be handled and treated in accordance with the Waste Management Guidelines GPS-011, Environmental Impact Mitigation Specifications, and Coordination Procedure Section 30 - Environmental Management.

2.7.1 Liquid Waste

Sanitary sewage shall be handled by a Wastewater Treating Plant (see Packaged Sewage Treatment System (Temporary) Specification GPS-004) which will be sized according to camp population such that effluent undergoes sufficient treatment to be suitable for discharge to surface waters (free of bacteriological and organic pollutants). Alternatively, for small camps a septic tank system with effluent disposal into a drainage field may also be suitable (specifications are given in GPS-018 for those contracts for which septic systems may be applicable). Other water treatment systems may be approved by Esso if the treatment standards of the Environmental Impact Mitigation Specification will be satisfied.

2.7.2 Solid Waste

Contractor's Waste Management Program shall provide a mechanism for disposal of all solid waste products avoiding social, economical, and ecological/environmental problems, and protecting aesthetics and health.

Prior to mobilization, Contractor will prepare and submit, for Esso approval, a Waste Management Plan as per Section 30 of the Coordination Procedure - Environmental Management. Solid waste will be disposed of per Contractor's Waste Management Plan which shall be consistent with Esso specifications and guidelines for waste management practices and treatment and disposal facilities.

The following requirements will also apply:

- Trash and rubbish shall be collected on a schedule that does not allow for accumulation of trash in bins, with an adequate number of wheeled and well-sealed large bins having been placed by contractor.



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- Bins shall be washed daily using disinfectant.
- Construction debris shall be separated and disposed of in proper manner, depending on the origin and condition. Recycling and reuse opportunities will be used where practical.

2.8 Medical Service

All health/medical service issues will be consistent with Esso's Health Plan, and Medical Service Guidelines for Remote Sites (GPS-010) and will be approved by Esso prior to mobilization.

Contractor shall submit for Esso approval, a medical plan including the number of doctor(s), physicians assistant(s), and nurse(s) to be utilized for the planned work force and staff in addition to planned sickbay facilities. The medical plan requirements are provided in Section 23 of the Coordination Procedure - Occupational Health, Medical Facilities and Sanitation.

2.9 Religious Customs

Contractor shall provide prayer rooms and other facilities, as necessary, to satisfy the religious needs and customs of its work force.

2.10 Demobilization

- 1) Before demobilization of any camps or facilities, Contractor shall submit a demobilization plan for Esso's review and approval.
- 2) Esso reserves the right to request non-demobilization of any or all temporary facilities.
- 3) Contractor shall be responsible for complete restoration of areas utilized for camps and storage areas not needed by subsequent project contractors to their original state, in accordance with the Environmental Impact Mitigation Specification (CCS-21-20-108).
- 4) A final demobilization inspection will be completed by Esso and Contractor prior to site release.