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UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION
Vienna International Centre, P.O. Box 300, 1400 Vienna, Austria
Tel: (+43-1) 26026-0 • www.unido.org • unido@unido.org
Final Progress Report

on the

Fire Training Facility

for the

U.N.I.D.O. PROJECT

SF/LIB/87/003

Prepared and presented by

FIRE-TECH LIMITED - MALTA
Final site inspection to survey (and amend) partially constructed roadways, additional roadways marked and curbstones and Oversite filled and rolled, new indicator pegs installed. Hardcore and primary road materials positioned on most of the roadways, this has then been rolled and settled prior to the next stage of construction. (Rolling and settling process completed to approximately 45% of roadways) second suitability survey of the road position together with the service pipe access sleeves completed. Service and access sleeves cleared and indicated with markers.

Secondary and penultimate site measurements recorded, alterations and additions to roadways and access roads marked and plotted. New areas on road drawn and initial plotting carried out.

Amendments to the final prop locations made for phase one, phase two and phase three. Secondary and penultimate soil and sub soil surveys made to assess suitability for specified props agreed and site area measured and indicated with markers. Water table and additional well access surveys made and suitable locations plotted. Well construction completed and a small bore pipeline (with motor) has been installed to provide water to the temporary fire training area.

Initial site clearance of area designated for phase one, two and three completed with preliminary site leveling and grading. Excess and unsuitable soils, trees, shrubs and debris removed from the site.

Reservoir site surveyed and plotted onto plan. Detailed plans of reservoir and pumphouse drawn, constructional engineering calculations made and recorded. Reservoir site cleared and construction commenced, with all soil removed from area. Steel reinforcing and concrete shuttering in position for base and sides together with shuttering and reinforcing steelwork for water baffles and roof supports. Reservoir of approximately 300,000 litres of water
Reservoir of approximately 800,000 litres of water approximately 80% complete. Water and ring mains for water supply (fire fighting) calculated and plotted onto drawing. Amendments to drawings and revised calculations made regarding ring main system. (This is following the preliminary results of the soil and sub soil surveys). The water ring mains have been divided into two main areas each with its own independent pump. Each ring main will have the ability to be supplied by either pump simultaneously or independently. Initial positions of hydrants calculated and re-plotted onto site plan.

Additional site clearance of area designated for phase one, two and three completed with final site leveling and grading. Excess and unsuitable soils, trees, shrubs and debris removed from the site. (Additional clearance required after the wrongful siting of debris brought on to site from another location).

Reservoir site under construction with all steelwork and shuttering in position. Concrete base has been poured awaiting the next stage of construction. Pump house base and footing have been constructed awaiting the next stage of construction.

Detailed drawing and constructional engineering calculations made of prop bases for phase one. Detailed site measurements and markers positioned on site (phase one phase two and phase three) additional leveling and grading to site carried out.

Detailed drawing, designs and calculations carried out prior to the construction of phase one. Phase one to consist of four main areas, these being:-

- Small tray area
- Small Christmas tree area
- Fire tank area and
- Fire wall area.
Additional design work for drainage and water recycling designs made and located onto plan together with fuel supply. Final detail of power supply and control box design completed. (Phase one) Gradient calculations made and recorded prior to water collection and recycling design.

Preliminary and secondary design, together with some constructional calculations and technical quantifications carried out on the following designs. (Design and constructional drawings completed for approximately half of the props):

- Fire Station
  - 3 bay single storey
  - 6 bay single storey
  - 4 bay two storey.

- 10 meter Storage tank (fixed roof) Traditional design
- 10 meter Storage tank (fixed roof) Concrete design

- Road and rail tanker filling site.

- Breathing apparatus complex. Hot fire simulation
  - Humidity chamber
  - Cold smoke simulation
  - Decontamination Unit

- Helideck simulator (hydraulic monitors x 4)

- Sprinkler installation

- Water ring main and fire hydrant system.

- Water recycling collection and separation (interceptor) system.

- Fuel supply pipeline and control box systems.

- Reservoir and pump house designs.

- Standard fire base designs.

- Additional specific fire base designs (secondary stage planning).

Note: Initial estimates and amendments to location files of the above items in an advanced stage of completion.
Boundary wall completed together with gate house and entry control system. Power supply sub station completed with power supply installed. Additional power supplies installed and operational following revised power supply calculations.

Primary planning and design of a relocation system for the removal overhead power lines. This project will entail the removal or relocation of the power pylons to an area closer to the present boundary line. If this is successfully carried out the available working space will be increased by up to 40% of the total area.

N.B. Three separate proposals now completed for the relocation of the overhead power cables. Worst scenario plan will achieve a 25% increase in available (usable land). Best case scenario will give up to 40% increase in usable land.

Barry Brown,
Design Consultant
Fire-Tech Limited.
01-08-1991.