



**Perspective**  
The Project for Rehabilitation of  
Floating Pump Stations in Upper Egypt  
(Phase )  
Arab Republic of Egypt



**No.22 Sahel Alakaba Kebli**

View of the existing floating pump station, discharge tower, connection pipe and discharge pipe. Pump operator moves by small ship.



**No.22 Sahel Alakaba Kebli**

Inside view of pump station and its facilities. Steel box at the center is the suction sump.



**No.22 Sahel Alakaba Kebli**

View of the main canal connected with the discharge sump of the pump station. Upstream of the canal is lined by concrete. Many Meska canals are directly connected to this canal.



**No.22 Sahel Alakaba Kebli**

Beneficial area planted with Berseem clover. Mangoes and dates are also planted. Expansion area is seen in the back.



**No.23 Al Rakikin Sahel**

View of floating pump station, connection pipe and discharge pipe. Discharge tower is inclined-type.



**No.23 Al Rakikin Sahel**

View of inside floating pump station. Pump, motor and discharge pipe are re-painted. The steel box at right is the suction sump.



**No.23 Al Rakikin Sahel**

Main canal connected with the discharge sump, which is lined with stone masonry up to about 10m from the discharge sump but downstream is earth canal.



**No.23 Al Rakikin Sahel**

Irrigation area is located along the Nile River with 80m to 100m in width, and pump station at the middle. Photo shows the irrigation area near the pump station.



**No.23 Al Rakikin Sahel**

The irrigable area is limited because of topographic condition, and small area located at rocky hills is also an important cultivable area.



### No.24 Blowkher

There are two existing floating pump stations with the capacity of  $0.75 \text{ m}^3/\text{s} \times 2$  units (front), and  $0.35 \text{ m}^3 \times 2$  units (back). In addition, fixed-type pump station exists at left. The Edfu Bridge (back).



### No.24 Blowkher

Inside view of the existing floating pump station (capacity:  $0.75 \text{ m}^3/\text{s} \times 2$  units).



### No.24 Blowkher

Inside view of the existing floating pump station (capacity:  $0.35 \text{ m}^3/\text{s} \times 2$  units).



**No.24 Blowkher**

View of the brick-made discharge sump, which inside is lined with concrete.



**No.24 Blowkher**

Branch canal flowing down along road connected with the Edfu Bridge, which is lined with stones.



**No.24 Blowkher**

View of a part of the expansion area, which is partly reclaimed using a little water of a drainage canal.



**No.25 El Ghorera**

Abandoned floating pump station. Pump, motor and pipe are deteriorated.



**No.25 El Ghorera**

View of the discharge sump and canal.



**No.25 El Ghorera**

View of the downstream of the main canal connected with the pump station. Water discharged from the fixed-type pump station (0.5m<sup>3</sup>/s x 3 units) is flowing. The fixed-type pump station of Ghorera • Asfun(back) located along the Asfun canal. The main canal turns to right at the top.



**No.25 El Ghorera**

View of the upstream of the Asfun canal, which has an intake at the Esna barrage.



**No.25 El Ghorera**

Outlet of the siphon of the Asfun canal



**No.25 El Ghorera**

View of the beneficial area and tail-end of the main canal. The canal is divided into two branch canals here, one to siphon to cross the Asfun canal





**No. 26 El Biadiea El Ollia**

View of the existing pump stations. The floating pump station installed by the grant aid of Japan (Phase 1) exists at the back.



**No. 26 El Biadiea El Ollia**

Inside view of the existing floating pump station. Pump, motor, discharge pipe and control panel are seen. There are two units of pumping facilities, which can be operated with parallel and series operation, resulting in complicated discharge pipe system.



**No. 26 El Biadiea El Ollia**

View of the connection pipe and discharge tower.



**No.26 El Biadiea El Ollia**

There are two type in canal system, namely, high main canal and low main canal in the area. The view is the discharge sump of the high main canal, which is discharged from the floating pump station in the length of about 1 km with steel pipe of 1.2m diameters. The pipe at right is the outlet of the discharge pipe from the fixed-type pump station.



**No.26 El Biadiea El Ollia**

View of the area irrigated by the high main canal, which was reclaimed recently.



**No.26 El Biadiea El Ollia**

View of the expansion area, which is flood plain of small Wadi with flat topographic condition. Far view is the existing beneficial area.