

2-2-4 Implementation Plan

2-2-4-1 Implementation Policy

The project is to procure the floating pump stations consisted of pumps with motors, barges and other necessary equipment which are united in each one pump station. The Mechanical and Electrical Department (MED) of Ministry of Water Resources and Irrigation is the direct executing agency of the Project.

All of the equipments and materials are to be procured in Japan. Inland transportation of the pump stations procured shall be carried out by MED.

Setting the pump station and connecting the discharging pipe with tower and subsequent test run are to be carried out by the workforce from MED. Supervisory mechanical engineer for the installation works of equipment will be provided by the supplier.

2-2-4-2 Implementation conditions

The government of Egypt shall be responsible for necessary works of customs clearance and exemption from taxation.

The government of Egypt shall be responsible for removing and reinstalling the roof portion of deck house in some bridge location where the clearance under bridge are not enough for the barges to pass through during inland transportation along the river.

2-2-4-3 Scope of Works

For the project implementation, the following works shall be carried out and borne by the government of Egypt.

- Customs clearance at Alexandria port and inland transportation to each site.
- Installation of floating pump station, equipments and materials for each pump station, and demonstration/trial run.
- New construction, and alteration and rehabilitation of discharge tower, water pipes, valves, transformer, power cable and irrigation canal up to farm land.

These are the same nature of works as previous projects (Phase I and Phase II).

Responsibilities of the government of Japan are the procurement of equipment and materials as indicated in Section 2-2-4 (1) "Drawings of Pump stations", and ocean transportation.

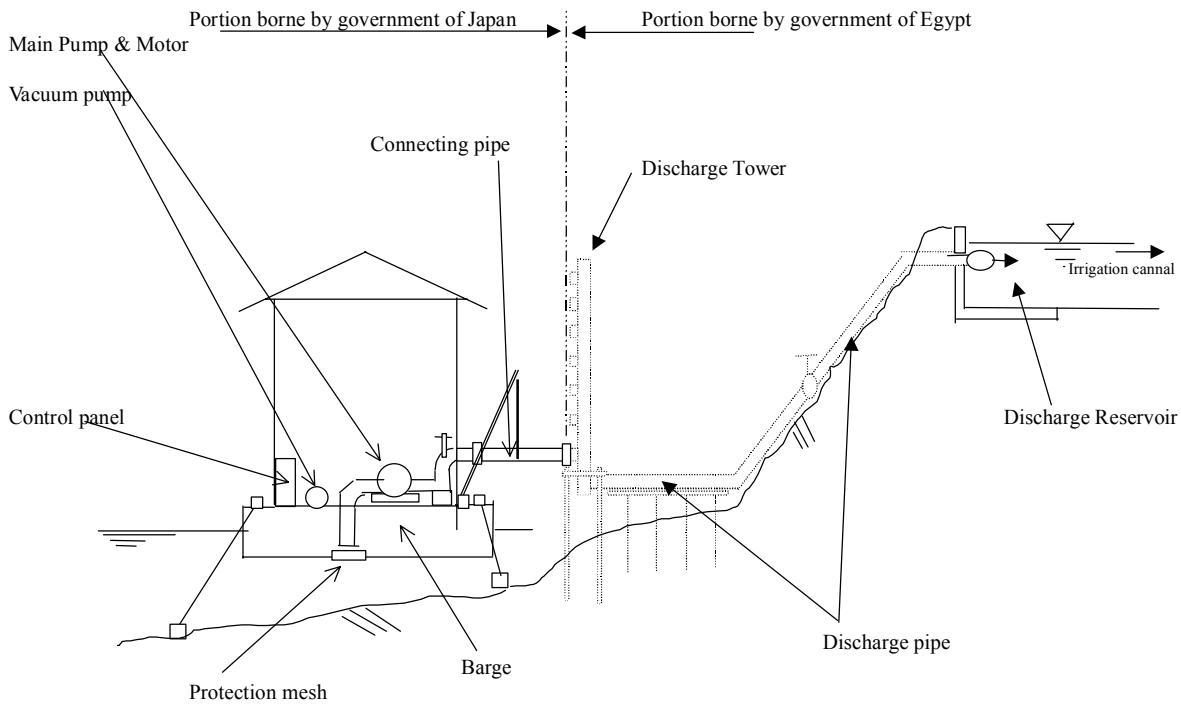


Figure 2-2-4(1) Typical Drawing of Pump Station

2-2-4-4 Consultant Supervision

(1) Supervision for the procurement

Interim inspection: Before commencing manufacturing of equipments and materials, the manufacturing drawing shall be inspected in accordance with design drawing.

Inspection before shipment:

Before shipment, the equipment and materials shall be inspected based on the tender documents and contract. Procured equipment and materials shall be shipped, after checking the appearance, the quantity and the ability test.

Inspection on Installation at Site:

To inspect and confirm proper installation and adjustment of equipment and materials successful trial run and teaching manner of operation and maintenance hand over the equipment and materials.

(2) As mentioned in 2-2-4-3, customs clearance, inland transportation from Alexandria to the site and installation, trial run of the pump station equipments shall be supervised and carried out by the government of Egypt.

2-2-4-5 Procurement Plan

Floating pump stations consist of pumping facilities and barge assembled by many equipment, materials and parts, which are procured taking account of the following viewpoints.

- Pump stations shall be manufactured systematically unit functioning from design stage to assembling stage since procured parts have to function each other successfully.
- Equipments and materials in this project will be procured in Japan taking account of quality on systematic unit functioning and aftercare.
- Procurement of equipments and materials in this project will include the supervision of pump station installation, adjustment of equipments and materials and confirmation of test run by the supplier under the supervision of the Consultants.

Spare Parts for equipments and materials will be determined by following basis.

- To prepare sufficient quantity of spare parts as possible, since the site are located far from Cairo (Capital of Egypt).
- To prepare spare parts required for repairing based on actual consumption records of spare parts supplied in Phase II and Phase III taking into consideration the 20 – 25 years durable period of pump.
- To prepare spare parts which are hardly available in Egypt such as main shaft, impeller, control brake of pump and motor.

Equipments and materials procured will be imported at Alexandria Port and after custom clearance, transported to the site along the Nile river.

2-2-4-6 Implementation Schedule

The project will be implemented after the Exchange of Notes as follows.

(1) Detail design stage

Study in Egypt	}	2.0 months
Detail design		
Preparation of tender documents		
Approval of tender documents	}	1.5 months
Tendering, and evaluation		
Negotiation and contract		
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Total		3.5 months

(2) Procurement stage

Manufacturing	12.0 months
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Implementation schedule of the Project is tentatively shown in Table 2-2-4(1).

Table 2-2-4(1) Implementation Schedule

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phase III	Detailed Design	▼ EN	(Study in Egypt)	(Detail design, Preparation of tender documents)	(Tender document approval)	(Tender, Negotiation and Contract)											
	Procurement of Equipment and Materials		Verification of contract for procurement			(Ocean transportation)				(Manufacturing)							
										(Inland transportation)							
												(Installation)					