



VARI PONTOONS

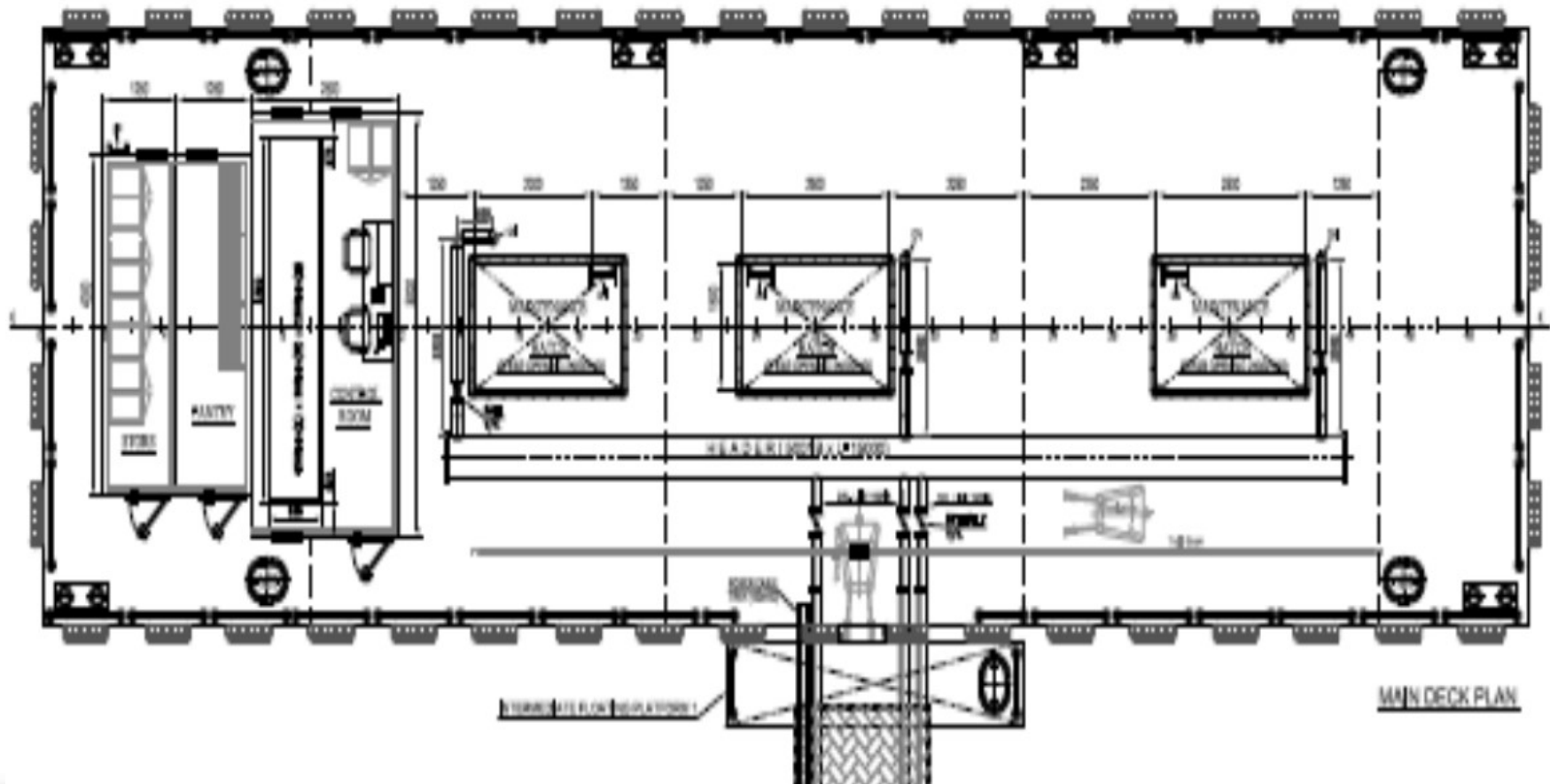
A Lot Can Happen Over Water

**For Nabarangpur Odisha, Indravati dam site
Vari pontoon has supplied 25X7 mtr huge size
metallic pontoon used for Pumping application
through JMC Projects.**

**FLOATING BARGE
CONCEPT, DESIGN & EXECUTION
METHODOLOGY**

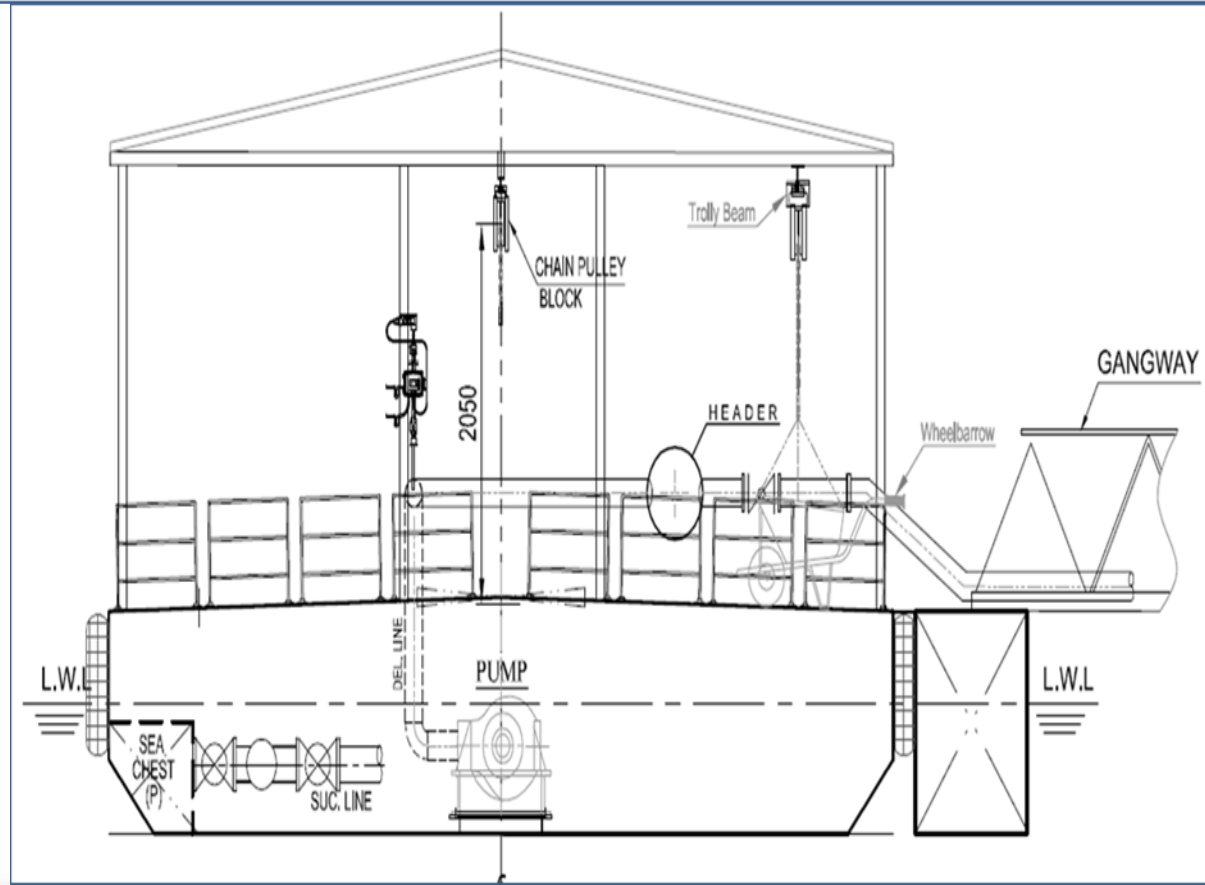
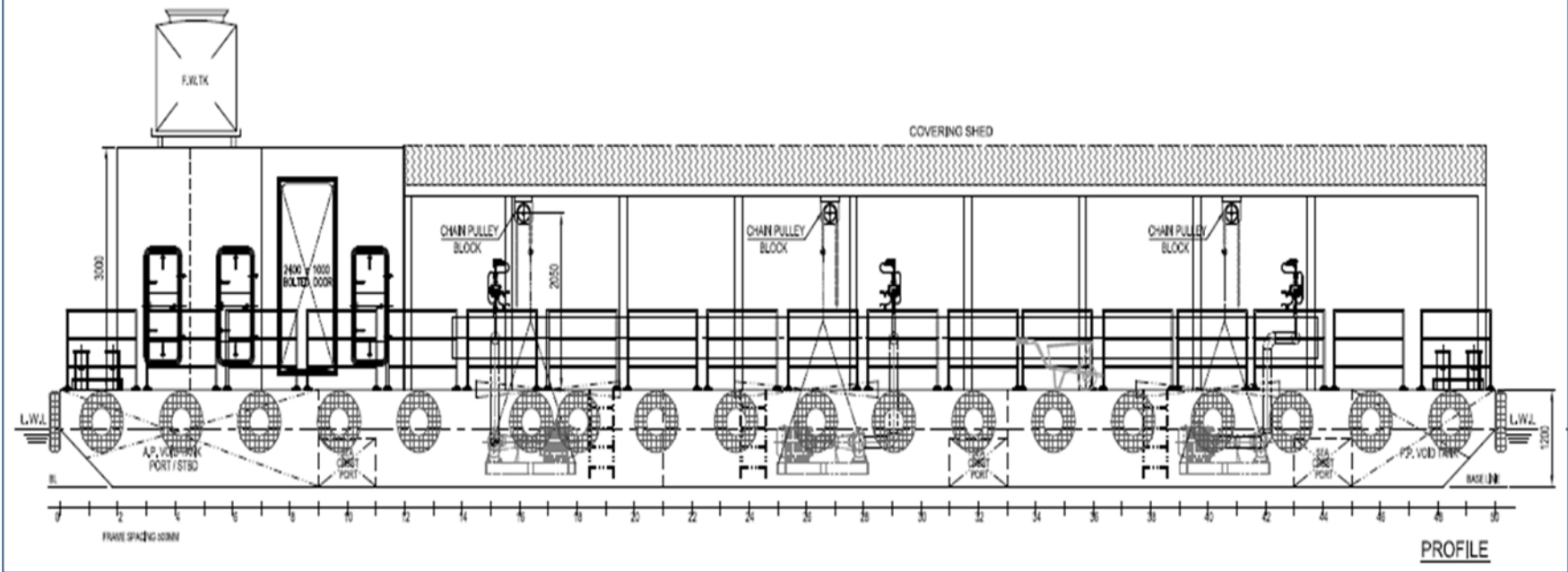
Introduction

Nabarangpur water supply scheme requires supply of raw water from Indravati Reservoir. For the supply of water, It is proposed to install 3 pumps (2 working + 1 standby) on a Floating Barge (25m X 7m) . The discharge from pump shall be transmitted through a Header laid over a floating Jetty (Gangway) to the Shore.



Floating Jetty/Barge

- The floating Jetty/Barges are floating Ships which can be used for loading of cargo on decks/in holds.
- In our Project, we are proposing to use the Floating Barge for the purpose of mounting Pumps on foundations inside the Compartments.
- The Control Panel and Space for galley is also provided on the deck for ease of operation.
- The provision to repair the pump on deck is also catered and provision to transport the pump from Ship to the Shore is also catered.
- The floating barge are built of Mild Steel (IS 2062 BR) or equivalent material.
- The access to Floating Barge from Shore is provide by way of Gangway Walkway.
- The Pumps and maintenance area is protected by a Shed.
- The provision of pulley is also catered for installation and removal of pump in every compartment.



Floating Barge

Length – 25 mtr

Breadth – 7 mtr

Depth – 1.2 mtr

Life of the pontoon – 30 – 35 years

Gangway

Length – 50 mtr

Breadth – 2.25 mtr

Design Life – 30 – 35 years

Project Execution Flow Chart

Concept & Basic Design



Submission to RWSS for Approval & Stamping



Submission to IRS for Final Approval



Production Design/drawing & Procurement of Material



Construction of Blocks and IRS Inspection at Factory



Transportation of Blocks to actual Site

Erection of Floating jetty and IRS
Inspection at site.



Launching and Installation of Misc. & Outfit



Towing of Floating Jetty to demarcated
location



Mooring of Floating Barge / Jetty to shore
and in place



IRS Certificate for the Floating Jetty



Completion of Commissioning and
Handing Over



Project Complete

Production stage

The Floating Barge is designed will be constructed in form of smaller blocks sized as per transport limits, preferably of 8x2.5x2.5 m.

The blocks will be transported to the site after IRS inspection and clearance at our factory.

The blocks will be erected at site and final welding will be carried out. Post IRS clearance, the hull will be made ready for launch.

The misc. and outfit items will be installed in the floating condition near to shore.

Launching and Installation stage

The floating Barge / Jetty will be launched by using Balloons along with cranes.

The installation of Pump and control panels will be carried out in floating condition.

The Floating Jetty post completion in all respect will be taken to the site location.

The gangway will be connected through intermediate floats and discharge pipe with electrical cables will be passing through the gangway.

The final system will be made ready and will be offered by IRS/Owner Inspection.

Trial commissioning and Handling Over

- The Floating Pump House will be tested for required discharge for a period of 02 days under the guidance of designer.
- The Operating and Maintenance Manual may be submitted for the Floating Pump House on additional request.
- The Final Operating System will be handed over to Nabarangpur Water Supply scheme Operations Team.

Site Photos



