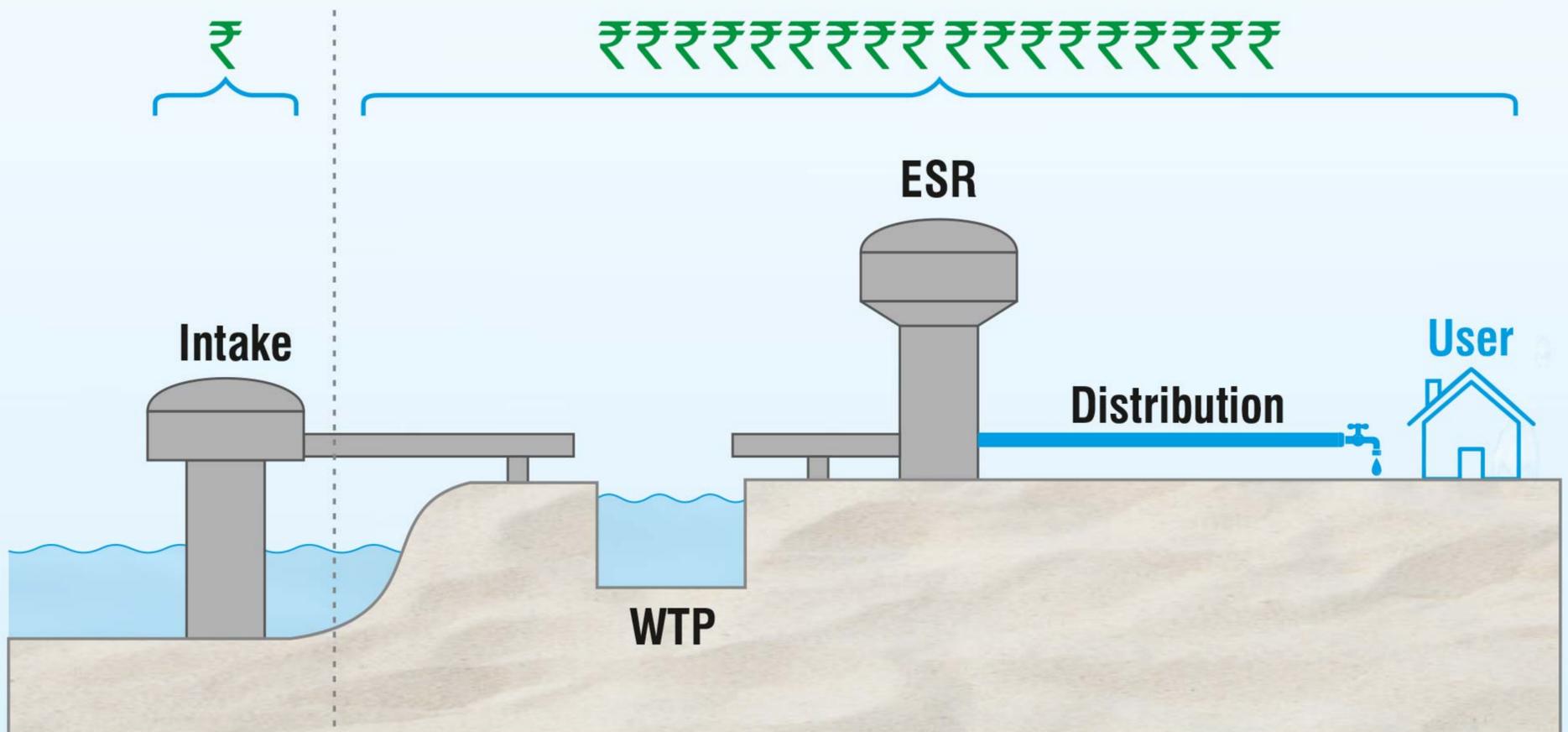


Q. : Why Submerged Pumpsets for Raw Water Intake Duties...?



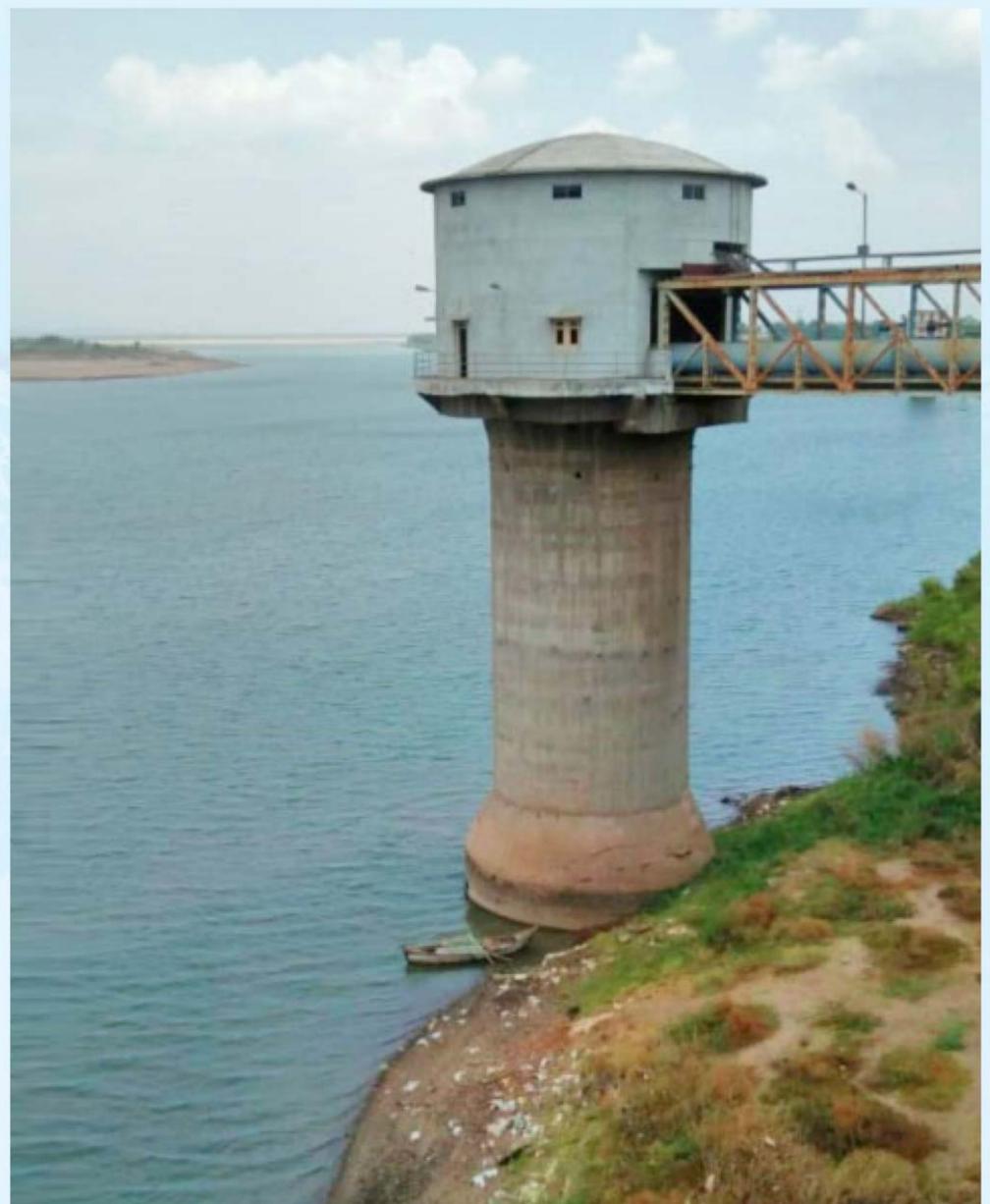
A. : 100% Guarantee for dot On-time Water Supply.



Background

In most Water Supply Schemes, the cost of Conveying & Distribution Pipelines, WTPs, Distribution Pumping Stations & ESRs / HGLRs often comprise upto 90-95% (of total cost) while Intake Well & it's Pumping Machinery contribute to a **mere 5-10%** (of total cost) .

Hence, Project Managers tend to give less Importance to Intake Well & it's Pumping Machinery.



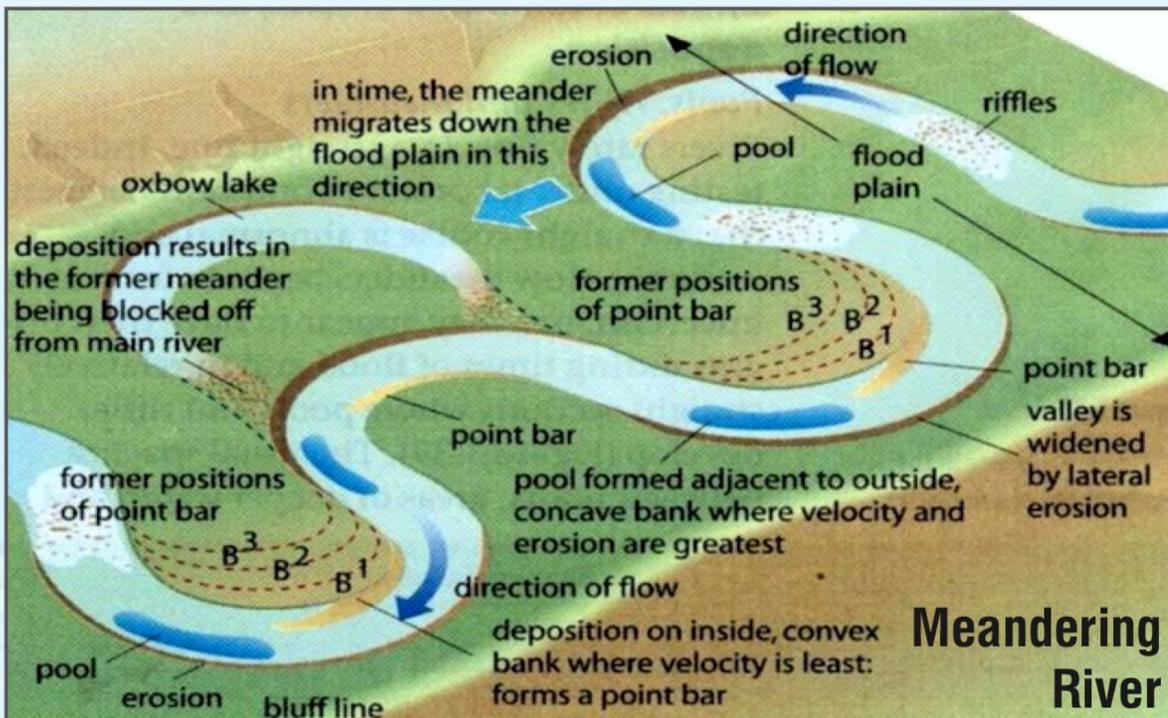
Construction of Intake Well is a Complex & Tedious job :

Constraints:

- **Perrenially Standing water**; creating difficulties in construction.
- **Location** of Intake Well being **near Dam Spillway Face** thereby raising Dam Safety issues during Construction phase.



Costly & Risky Coffor Dams are often required for construction of Intake Wells



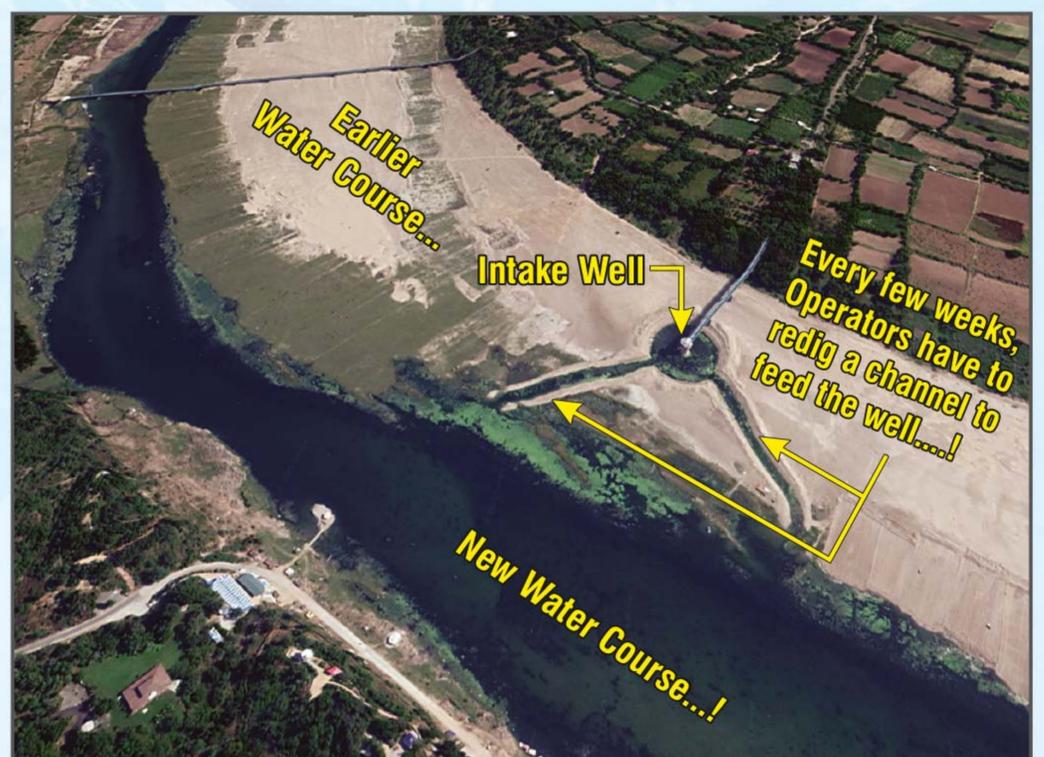
Constraints:

- **Meandering River.**
- **Soil Bearing Capacity issues...**



Solution :

Instead of a Fixed Well, go for a Submerged Pump based Floating Pontoon Station as it can be **easily Shifted / Re-Located** depending on the Water Course....



Construction of Intake Well is a Complex & Tedious job :

Constraints:



Design & Approval Synchronisation issues for Statutory permissions from **Multiple Authorities :**

- Land Acquisition Collectorate,
- Water Body Owner WRD,
- Beneficiary Local Body / PHE,
- often Forest dept.,
- a plethora of DPR & Proof Consultants,
- Resistance of Local Farmers,

Financial Discouragement:

- Cost disparities & overruns (*between Actual v/s Estimated costs*);
- Minimal Profitability & Miniscular Share (*of Intake Well*) in Total Project Value yet Maximum Effort leading to it's neglect.

lead to **cascading delays** even before the Construction (*of Intake*) can begin.

These **huge delays** (*of Intake Well construction*) derail the Entire Project's Commissioning (*water supply*).

Hence, despite an Expenditure (& Execution) of upto 90% -95% Project (*in a very short time*) - **Water Supply is inordinately delayed for years thereafter...!**

*"For the want of a Nail - the Shoe was lost.
.. For the want of a Shoe - the Horse was lost. ...
... For want of a Horse - the Battle was lost. .
..... All for the want of a mere nail ! "*

- by Benjamin Franklin & James Baldwin

Solution:



Now with Submerged pumpset (& *back-up Pontoon Technology*), you have a 100% Guarantee of being able to start water supply irrespective of delays in Construction of Intake Well, Meandering Water courses, etc



Solution:

Instead of a **Intake Well dependent VT pump**, in the Tender itself; opt for Versatile **Submerged pumpsets** which can be used :

- 1) Either, in a **Regular Civil Intake Well** (if required (& as & when constructed))
- 2) **or on Floating Pontoons** also (if the Intake Well is done away with (or delayed in construction)) to be ordered **only if required**.

Either ways, Client is assured of Timebound Commissioning of Water Supply (as soon as Pipelines are laid & Electrification is done) at **No Additional Cost** - *i.e. an Insurance Policy without Premium.*



Submerged Pumps save the Day..!

Due to Water Logging, Construction of Intake Well was abandoned (*i.e. Saving*) after which the Submerged Pumps were Commissioned from Floating Pontoons instead (*i.e. Extra*)

Adapted by...



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