

*PHANS4 CONSULTING  
PVT. LTD.*

WATER RESOURCE &  
IRRIGATION SECTOR



*WATER RESOURCE & IRRIGATION*

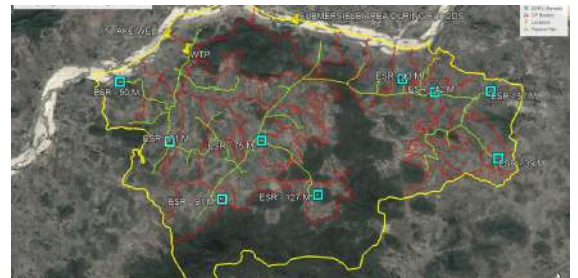
# OUR SERVICES

## 1. RURAL WATER SUPPLY SCHEMES (RWSS)

Population growth in India is putting tremendous pressure on existing water systems to supply water to both urban and rural area in terms of quality and quantity requirement. PHANS4 CONSULTING has designed efficient rural piped water supply consulting solutions to meet the requirements of the country. Our experienced Engineers draws a lot of strategies and best technologies to the projects.

### OUR SERVICES INCLUDE

- Water demand studies,
- Site survey and investigations
- Reservoir studies,
- Raw water intake pump calculations,
- Master balancing reservoir (MBR),
- Water treatment plant design,
- Capacity calculations,
- Elevated service reservoirs,
- Distribution pipeline networks and hydraulics.
- Our expertise also includes smart water grid design with SCADA systems.



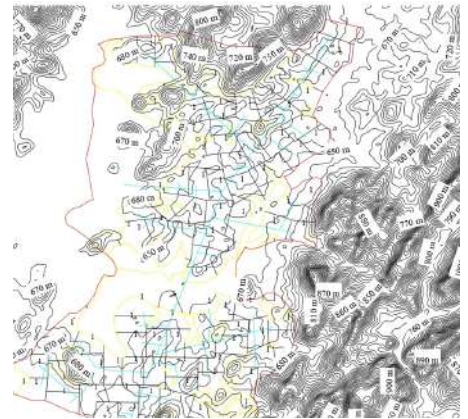
# OUR SERVICES

## 2. LIFT IRRIGATION SCHEME

Lift irrigation schemes are instrumental in stabilizing agricultural production in the years of drought and increase food production. For successful functioning the LIS requires appropriate techniques, planning, designing, execution under technical guidelines, understanding the importance **PHANS4 CONSULTING** has proven expertise in all types of lift irrigation consulting projects with integrated and customized service to clients in the field of irrigation.

### OUR SERVICES INCLUDE

- Tender Support (Pre-bid Review, Meetings, Queries, Bid submissions)
- GIS Mapping
- Survey and Investigations Intake systems,
- Pump House design and selection,
- Rising Mains/Pressure Mains (DI, MS Pipes)
- Gravity mains (DI,MS pipes, HDPE),
- Delivery Chamber/BPT
- Distribution network planning,
- Control and Instrumentation design of entire scheme,
- Major and Minor outlets with Locations,
- Bill of Quantities,
- Project management consulting.



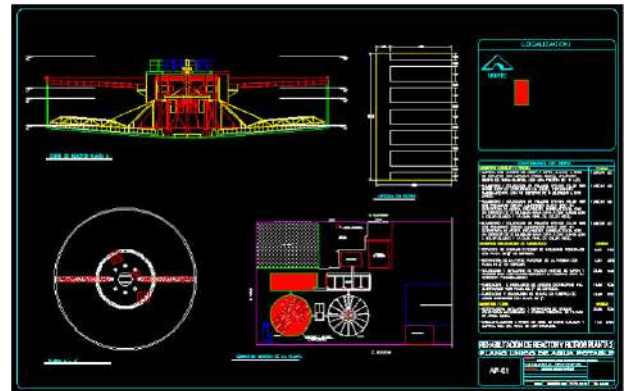
# SERVICES

## 3. WATER AND EFFLUENT TREATMENT PLANT

PHANS4 CONSULTING engineers has proven experience and independent consultancy on water and waste water treatment in enhancing the efficiency of the plant while adding extra safety to the environment. **PHANS4 CONSULTING** has focused in improving operational flexibility and reliability mastered the design and development of efficient systems for industrial water treatment and effluent treatment plants.

### OUR SERVICES INCLUDE

- Site Study & Design engineering,
- Technologies involved,
- Preparation of feasibility study (WTP, ETP),
- Detailed project reports (WTP, ETP),
- Transaction advisory services (WTP,ETP),
- Source,
- Water quality report (pH, TDS, TSS, Hardness, Cl, SO4, Turbidity, COD)
- Design and Supply and Erection and Commissioning
- Operations and Maintenance (WTP, ETP)

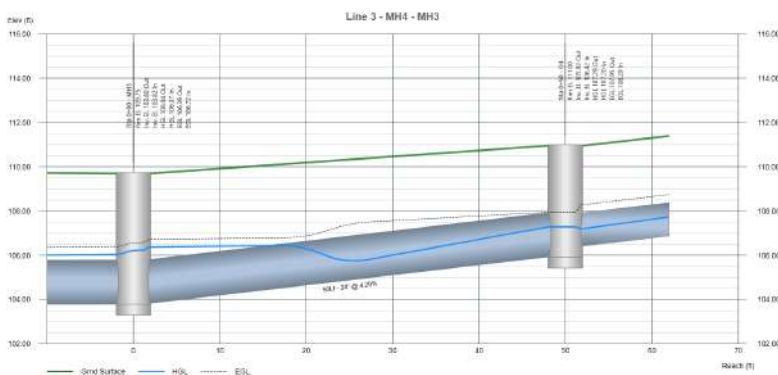


## 4. STORM WATER DRAINAGE SYSTEM

Storm water management is the effort to reduce the run off of rainwater and improvement of water quality. Together we provide a greater understanding of the characteristics of storm water run-off, sediment detention design, water quality impacts and management of non-storm water potential pollutant sources. Over the years **PHANS4 CONSULTING** has developed design models for efficient storm water drainage systems for various government bodies, SEZ's, Real-estate projects , ports across India .

### OUR CAPABILITIES INCLUDES

- Identifying the urban flooded areas using latest technologies,
- Data collections,
- Conducting surveys and investigations.
- Preparation of storm water drainage network,
- Hydraulic designs of storm water drainage locations like inlet locations,
- Manholes,
- Pumping of storm runoffs,
- Outfall structures and natural streams
- Conducting rainfall analysis,
- Design of rain water harvesting systems.



## 5. LAKE DEVELOPMENT

Phans4 has proven expertise in major LIS projects with integrated and customised service to clients in the field of irrigation.

### OUR SERVICES INCLUDE

- Detailed project report for Strengthening and Beautification of Micro Irrigation and ZP Tanks,
- Bund improvements & Pitching work,
- Gravity main pipeline network,
- Topographical survey maps of the area Village map,
- tank details, and Rainfall details,
- Reconnaissance survey for tank silt,
- Bund details & Waste weir details,
- Preparation of preliminary Designs,
- Drawings & detail estimates required for the desilting,
- Improvements of tank, waste weir, etc., and structures detail design,
- Estimates and drawings,
- Detailed alignment survey,
- Detailed Engineering,
- Drawings for Gravity main pipe including structures coming across,
- Pipe diameter, and structures including hydraulic particular

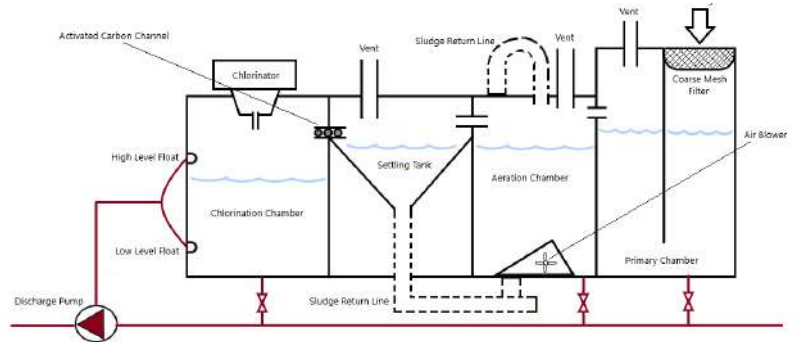


## 6. SEWAGE AND SEWERAGE TREATMENT

Phans4 consulting has mastered the engineering design for sewerage treatment systems over the years,

### OUR SERVICES INCLUDE

- Develop forecasting models for estimation of sanitary sewage,
- Hydraulics of sewer,
- Design of sewer systems,
- Layouts,
- Components of the system,
- Sizing,
- Design and selection of sewer appurtenances,
- Suggesting the material for construction of sewers,
- Structural design of sewers.





## PHANS4 CONSULTING PVT. LTD.

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