Turnkey Projects for
- Modular Operating Rooms
- Intensive Care Unit (ICU)
- Cardiac Care Unit (CCU)
- Invitro Fertilization Labs (IVF)
- Centralized Biomedical Waste Disposal Facility

Shivani
Healthcare Engineering

Turnkey Projects for Healthcare Sector

With Shivani... Success Assured.
From Project to Reality

Overall Objectives & Capacity

Regulations and Safety

Select and Integrate

Define

Comply

Design

International Regulatory Guidelines
Turnkey Projects for
- Modular Operating Rooms
- Intensive Care Unit (ICU)
- Cardiac Care Unit (CCU)
- Invitro Fertilization Labs (IVF)
- Centralized Biomedical Waste Disposal Facility

On Time and On Budget

Build

Training and Support

Run

ASSURED SUCCESS
Turnkey Projects for Invitro

From Scratch to Finish

Shivani Scientific Industries Pvt. Ltd., INDIA is driven by passion of success to ensure continuous development and delivery of State of the ART IVF Projects. We have relentless passion for quality and success in everything we do.

Turnkey Project Capability

Shivani Scientific is a leading company in the world today offering single window service such as site survey, Lab Design, HVAC, Modular IVF Lab, Equipments, Training, Project management and feasibility studies for setting up of ART Centre as per EUTCD, CAP & ICMR guidelines. Shivani Scientific has undertaken many projects nationally including reputed All India Institute of Medical Sciences (AIIMS) and Internationally such as British American Hospitals, Port Louis, Mauritius.

The IVF Lab Facility

The IVF Lab Facility is the most critical work area in the entire ART Centre. In this area sperm embryos and Oocytes are manipulated openly after following disinfection and sterilization steps. The design consideration is normally on internal air quality (IAQ) requirements. The facility can be Grade A, Grade B, Grade C, or Grade D depending on; the standard followed and implemented.

Sample Procurement

In assisted conception, 2 types of biological samples enter the system, spermatozoa and Oocyte. Unlike many other areas of tissues banking where specimen are taken from different areas. Assisted reproduction deals with donors of gamets, sperm none of these samples can be disinfected or sterilization prior to use in IVF Lab and process of Invitro fertilization and
Fertilization Labs (IVF)

Sample Handling and Processing
The IVF Lab designs prime purpose should be to ensure the quality and safety of transplanted tissue and cells while this means that specimen handling must be performed in a way that they should minimize risks of infection and disease transmission. It must also ensure that the processing requirements do not compromise the functional potential of the cells.

Positive Pressure Design
The IVF Lab should employ positive pressure to exclude contamination coming from surrounding areas with the provision of fresh air intake to replace CO2 Gas released in the IVF Lab. This not only will protect the embryos but also the embryologist.

Modular Clean Room and Air Quality
The air quality required may vary from air grades A-D. Microbial contaminant level can be minimized with Hepa filtration, VOC filtrations and modular clean room design. The Modular cleanroom concept facilitates ease in building of partitions, ease of cleanability, covering of joints, provision for electrical and Gas pipelines with proper aesthetic looks.

Packing, Labeling and Storage
The IVF Lab design should also addressed to the packing of the Tissues and Cells storage which in the case of reproductive material means cryo banking.

Traceability
The IVF Lab design should also lead to the pronouncement of required standards for traceability of specimen. This will involve labeling specification and requirement for data retention.
### IVF Equipment and IVF Consumables

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