



# Sachi Geosynthetics Pvt. Ltd.

specializes in providing total customized solutions to the Infrastructure Industry  
and environmental protection in the area of geosynthetics applications.

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[www.sachigeo.com](http://www.sachigeo.com)

## ”About us



Sachi Geosynthetics Pvt. Ltd was established in 2005, with the objective of providing turn-key geosynthetics solutions for infrastructure projects. The promoters have more than 18 years experience in the design and construction of a wide range of reinforced soil structures and other geosynthetics applications. The company's forte is in the execution of projects on a turn-key basis. Over the years, Sachi Geosynthetics has acquired and sustained a solid reputation for its unwavering commitment to quality, technical competence and most importantly speedy execution of projects.

## Sachi Geosynthetics Pvt. Ltd.

specializes in providing total customized solutions to the Infrastructure Industry and environmental protection in the area of geosynthetics applications.

## ”Our Services

**We offer the following range of services to our esteemed Clients:**

- ✓ Detailed engineering designs and construction drawings.
- ✓ Supply of geosynthetic materials and accessories:
  - Geogrids
  - Geotextiles
  - Coir/jute geotextiles / mats
  - Synthetic turf reinforcement mats
  - Geocells
  - Gabions
  - Connection fixtures, EPDM bearing pads
- ✓ Casting and erection of precast concrete facing panels and blocks.
- ✓ Execution of projects on a turn-key basis.
- ✓ Precast structural work.



## **”Sachi Geosynthetics offers the following unique benefits to its esteemed customers:**

- ✓ Direct and continuous involvement of the senior management in all aspects of the project including design, material procurement and construction.
- ✓ High level of technical competence and vast and wide ranging experience.
- ✓ Strong commitment to quality.
- ✓ Proven ability to execute even difficult and challenging projects.
- ✓ Superior project management capabilities to deliver projects on time.
- ✓ Competent and experienced personnel.
- ✓ Experience of working in various parts of the country.

**Optimum Solutions | Emphasis on Quality | Speedy Execution**

## **”Sachi Geosynthetics’s business activities are centred around geosynthetics and reinforced soil applications and include following:**

- ✓ Reinforced soil retaining walls.
- ✓ Reinforced soil steepened slopes.
- ✓ Gabion retaining walls.
- ✓ Slope stabilization and protection.
- ✓ Erosion control applications.
- ✓ Geocell applications.



## Reinforced Soil Retaining Walls

offer proven, reliable, durable and cost- effective solutions for a wide range of earth retention problems:

- ✓ Approaches to underpasses, flyovers and road over bridges.
- ✓ Approaches to road under bridges and rail flyovers Highways and railway high embankments in locations with right-of-way restrictions.
- ✓ Bridges abutments
- ✓ Highways and railways in hilly areas.
- ✓ Airports in hilly areas.
- ✓ Site development for residential, commercial and industrial projects.

Facings for reinforced soil wall include a wide range of options to suit site constraints and requirements, wall height, subsurface conditions, design life, aesthetics etc. Available options include:

- ✓ Precast concrete discrete panels
- ✓ Precast concrete segmental blocks
- ✓ Gabions
- ✓ Welded wire mesh with rock
- ✓ Welded wire mesh with vegetation
- ✓ Geocells

**Connection between the soil reinforcement and the facing is a critical component of the reinforced soil wall. Sachi Geosynthetics uses proven, safe and durable connections to ensure satisfactory performance for the entire design life of the structure.**





Projects completed include more than 3.50 Lakhs sqm of Reinforced Soil Wall face area and 25000 sqm of Reinforced Slopes area. It has to its credit major achievements like:



**15.5m high single tier geogrid reinforced soil wall with discrete panel facing.**



**True Geogrid reinforced soil bridge abutment**



**Onsite Geogrid pull-out test.**



**Newly developed corner unit for RSRW.**



## Work of Art in RSRW for DLF HUDA Sector Road, Gurgaon

### GABION RETAINING WALLS

- ✓ Suitable for low to medium heights where stone is easily available
- ✓ Major advantages – flexibility, good drainage, machinery not required

### GEOCELL APPLICATIONS

Cellular confinement systems supplied in a collapsed form and filled at site with soil, aggregate or concrete for a wide range of applications:

- ✓ Erosion control.
- ✓ Slope protection and stabilization.
- ✓ Retaining structures.
- ✓ Facing of reinforced soil walls and slopes.
- ✓ Subgrade stabilization.
- ✓ Track-bed stabilization.
- ✓ Canal lining.
- ✓ Reservoir lining.



## REINFORCED SOIL SLOPES

- ✓ Stabilization of embankments and fill slopes with slope angles up to 70° with horizontal
- ✓ No embedment required in normal situations
- ✓ Locally available fill materials with fines (silt and clay)  $\leq 50\%$  and plasticity index  $\leq 20$  could be used.
- ✓ High tolerance to settlement and earthquakes
- ✓ Facings options include vegetation, wrap-around with vegetation, welded wire mesh with stone, gabions, geocells etc.



**Stage 1: Geogrid reinforcement laying in progress**



**Stage 2: Vetiver grass sowing in process**

## EROSION PROTECTION

### APPLICATIONS

- ✓ Embankment slopes
- ✓ Cut slopes
- ✓ River/stream Bed and bank protection
- ✓ Coastal protection

### TECHNIQUES

- ✓ Vegetation (including Vetiver grass)
- ✓ Coir/jute erosion control blankets or synthetic turf reinforcement mats
- ✓ Gabions and mattresses
- ✓ Geocells (filled with soils and vegetated / with aggregate in-fill / with concrete in-fill)



**Stage 3: Status after one month**



**Stage 4: Status after 3-4 month**

# Solutions from Sachi

- ✓ Reinforced soil retaining structures
- ✓ Reinforced soil steep slopes
- ✓ Gabion retaining walls
- ✓ Erosion control applications
- ✓ Geocell applications
- ✓ Precast structural work



Contact Us:

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