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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"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.

"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.

www.sachigeo.com
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.

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.
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.

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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) ≤ 50% and plasticity index ≤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.

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)

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Sachi
Solutions from Sachi

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

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