

# Highways

Defying geography

CESEL S.A. is a consulting company with more than 40 years of experience in developing engineering with several integrated disciplines. Its headquarters are located in Peru and it has branches and offices in several Latin American countries. CESEL develops studies, designs and engineering projects; studies, works and assembly supervision; factory inspection; environmental studies and comprehensive management of engineering and construction projects through its twelve operating divisions and six technical departments. The Highways Division is described as follows:

## Services

- Project referential schedule.
- Preliminary design.
- Preliminary program.
- Preliminary estimation.
- Pre-feasibility.
- Feasibility.
- Final engineering study.
- Work supervision.
- Project management (EPCM).

## Software

- AutoCAD.
- CIVIL 3D.
- EAGLE POINT.
- HDM-4.
- LCCOST.
- MS PROJECT.
- S10.
- HEC-RAS.

## Areas

### Highways and roads

- Primary and secondary network highways.
- Access roads to mining projects.
- Departmental highways.

### Road concessions

- Road concessions project management.
- Service levels evaluation and measurement.
- Road management systems.

### Bridges and tunnels

- Post-stressed and pre-stressed concrete bridges.
- Composed section bridges.
- Metal bridges.
- Cable-stayed bridges.
- Suspension bridge.
- Tunnels for urban roads and highways.

### Urban roads

- Road interchanges.
- Viaducts.
- Expressway.



- 1 Héroes de la Breña Highway. Lima, Peru.
- 2 Ayacucho - Abancay Highway. Section: Kishuana Deviation - Sahuinto Bridge. Ayacucho and Apurímac, Peru
- 3 Billinghamts Bridge. Madre de Dios, Peru.
- 4 Group II, route 9 - Neuland. Boquerón, Paraguay.
- 5 Collana Bridge. Lima, Peru.
- 6 Yauri - Negromayo - Imata Highway. Section: Imata - Osoollo - Negromayo. Arequipa and Cusco, Perú.
- 7 South Interoceanic Road Corridor, Peru - Brasil.
- 8 Trujillo - Huamachuco Highway. Section: Otuzco Deviation - Callacuyán. La Libertad, Peru.
- 9 Chamaya - Jaén - Canchis River Highway. Pericos - San Ignacio Section. Cajamarca, Peru.

## Projects

- Billinghamts Bridge (723 m). Construction and assembly supervision of the biggest bridge in Peru. Madre de Dios, Peru.
- IIRSA Sur Interoceanic Highway. Section 3 Inambari - Iñapari of the South Road Corridor, Peru - Brasil (403 km). It includes 39 bridges with an accumulated length of 1380 m. Detail engineering and construction supervision. Madre de Dios, Peru.
- Santa Rosa Tunnel. Access roads to the tunnel and interconnection to the district of Rimac and San Juan de Lurigancho. Construction supervision. Lima, Peru.
- Av. Néstor Gambetta Improvement, Section III-B. Study and work supervision. Callao, Lima; Peru.
- Lima - Canta - Huayllay - Cochamarca Deviation - PE 3N Connection Highway, (206 km). Service levels improvement, rehabilitation and preservation supervision. Lima, Junín and Pasco, Peru.
- Chamaya - Jaén - San Ignacio - Canchis River Highway rehabilitation and improvement. Section: Pericos - San Ignacio, it includes Vía de Evitamiento (55 km). Work supervision. Cajamarca, Peru
- Rout 9 Highway, sections towards Neuland and Loma Plata (40 km of new roads and 225 km of lateral roadsides). Road works group II supervision of the West Integration Road Corridor Program. Boquerón, Paraguay.

