

**Terms of Reference
Environmental and Urban Sector Programme Support (EUSPS)
Bhutan**

Draft

International/Regional Technical Assistance

Post: Sewerage Specialist

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Duration: 6 weeks in Bhutan

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Background:

EUSPS is Danida assisted programme with 5 components of which the Component No. 5 is “Support to Development and Management of District Towns”. Under the Component 5, the programme support to the district towns of Tsirang, Trashigang, Gyelposhing, Gelephu and Samtse. The strategy to support the development of the five towns is a combination of capacity building, technical support and development of infrastructure facilities. Among the many urban infrastructures to be provided in the towns, one of the main element, which takes bulk of the component budget, is on proper disposal and treatment of wastewater. Except for the Gelephu town for which The design, drawings and the tender document of the piped sewerage with lagoon treatment process are completed. The remaining smaller towns have a population ranging from 2,500 to 5,000 persons. In these towns the wastewater disposal is envisaged to be carried out through small-bore sewers with low technology but appropriate treatment method suitable for each town.

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Qualifications:

- M.Sc. in public health or environmental engineering.
- Specific extensive knowledge on hydraulic design, preparation of construction drawings on sewer network and treatment options for small urban centers.
- At least 10 years experience in planning, design and construction of sewer network, lagoons and other low cost treatment sanitation method for small urban centres.
- Fluency in verbal and written English

Duties:

- The Sewerage Specialist will visit all the four towns and come up with a detailed design for all four towns (not necessarily with same design for all four towns).
- The treatment method adopted should be low technology but flexible enough to accomode extension and upgradation in the future
- review the design, drawings and tender document of the sewerage scheme in Gelephu. Also assess and prepare justification on the scope of sewerage area being considered by the Local Authority in Gelephu.
- In consultation with Urban Infrastructure Service Division, finalise the wastewater disposal options and select the sites.

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- During the input, give on the job design trainings to the local engineers
(software aided design)↓
- Carry out a field visit to all the project sites.

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