1. **PROJECT TITLE**
   SECONDARY WASTE SEPARATION PLANT AT RAMIĆI REGIONAL LANDFILL, BANJA LUKA

2. **SECTOR**
   Waste management

3. **LOCATION**
   Banja Luka

4. **BRIEF PROJECT DESCRIPTION**
   According to the Regulation Plan and the Preliminary Design for rehabilitation and expansion of the existing landfill, it is planned to build a secondary waste separation plant at Ramići landfill.
   According to the Feasibility Study (2012), it is justified to introduce secondary waste separation at Ramići landfill. Construction of a secondary waste separation plant includes a building, a waste separation plant and a composting plant. Plant capacity is 15t/h. Waste quantity brought to the landfill annually is about 100,000 tons.

5. **PROJECT DETAILS**
   **WHAT TYPE OF PROJECT IS IT?**
   Public-private partnership
   **PROJECT STATUS**
   Feasibility Study
   **REASONS TO INVEST IN THE PROJECT**
   Ramići Regional Landfill is used for disposing of the waste collected in the territory of Banja Luka region, and it receives more than 300 tons of waste daily. The waste brought to the landfill is mixed municipal waste which includes considerable quantities of potential secondary raw materials. The Feasibility Study showed that recyclable components in the waste brought to the landfill account for about 45% and comprise paper, cardboard, plastics, PET, foil, metal and glass.
   Therefore, the potential investor is provided with a significant quantity of secondary raw materials which are brought daily to the landfill as mixed municipal waste and need to be separated from it. Useful components separated from the waste as secondary raw materials have a market value. Their sale would generate profit.
   The profit generated on those grounds would be shared between the public and the private partner, depending on their investment.
   PE DEP-OT which manages the landfill has a qualified staff and labour force.
Location advantages and existing infrastructure at the landfill:
The landfill is located at Crkvine, Ramići settlement, in the north-western part of the municipality of Banja Luka, on the left side of the M4 Banja Luka - Prijedor trunk road and about 150 metres from it. The location is connected with the main trunk road by a two-lane auxiliary access road. Distance from the centre of Banja Luka to the landfill is about 10 kilometres.
Banja Luka region is very well connected with the Republic of Croatia. Another advantage is the proximity of Mahovljani international airport.

The urban technical requirements cover the area of about 29 ha of the existing landfill and its expansion to a total area of 44 ha.

The area of Ramići Regional Landfill consists of a reception area of three components and the landfill with the supporting infrastructure:

I Reception area:
- entrance road with weighing scales (entrance and exit, two weighbridges);
- weight and incoming waste verification facility;
- administrative building with parking area;
- internal roads for movement of trucks and operating machinery.

II Operating area
- heavy machinery workshop and garage;
- vehicle washing and disinfection area with an automatic car wash;
- plant for leachate treatment by reverse osmosis method;
- landfill gas burning plant-flare;
- petrol station.
III Body of the landfill:
- waste depositing area;
- earth barriers to secure the body of the landfill from sliding;
- hydrant ring;
- recycling material area;
- surface water collection and treatment area (collector);
- leachate collection area.

A 10/(20)/0.4 kV, 1000/630 kVA prefabricated concrete substation with a medium voltage connection is built on the landfill.

6. PROJECT FINANCING
GIVE ESTIMATED PROJECT VALUE IN EURO
2,500,000.00 euro
PLANNED SOURCES OF FINANCING
Public-private partnership or concession
INPUTS BY LOCAL PARTNER
500,000.00 euro (land, raw material, infrastructure, human resources, environmental impact study, project documentation, operating permit)
INPUTS BY INVESTOR
2,000,000.00 euro (building/hall, separation plant and composting plant)

7. HAS PHYSICAL LOCATION FOR PROJECT IMPLEMENTATION BEEN IDENTIFIED
Main planning documents: BiH Solid Waste Management Strategy and Republic of Srpska Spatial Plan provide for the use of the Ramići Regional Landfill area for solid waste disposal.

Regulation plan: Amendment to the Regulation Plan for the Regional Solid Waste Sanitary Landfill Area at Ramići Location in Banja Luka adopted on 30 October 2006.

Resolved ownership issues (PE DEP-OT is full owner of the land accommodating the landfill).

The founders of the PE DEP-OT are the City of Banja Luka and seven neighbouring municipalities. Their shares in founding the company are defined by the amount of the invested capital as follows:

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Banja Luka</td>
<td>62.03%</td>
</tr>
<tr>
<td>Municipality of Gradiška</td>
<td>14.00%</td>
</tr>
<tr>
<td>Municipality of Prnjavor</td>
<td>10.00%</td>
</tr>
<tr>
<td>Municipality of Lakaši</td>
<td>8.00%</td>
</tr>
<tr>
<td>Municipality of Srbac</td>
<td>1.92%</td>
</tr>
<tr>
<td>Municipality of Kotor Varoš</td>
<td>0.03%</td>
</tr>
<tr>
<td>Municipality of Čelinac</td>
<td>4.00%</td>
</tr>
<tr>
<td>Municipality of Knežević</td>
<td>0.02%</td>
</tr>
</tbody>
</table>

Commercial Project Application Form for Investor Search
Location advantages:

- built infrastructure (entrance road with weighing scales, weight and incoming waste verification facility, administrative building with parking area, internal roads for movement of trucks and operating machinery, heavy machinery workshop and garage, car wash, plant for leachate treatment by reverse osmosis method; landfill gas burning plant-flare; petrol station, substation, waste depositing area, earth barriers to secure the body of the landfill from sliding, hydrant ring, recycling material area, surface water collection and treatment area (collector), leachate collection area).

- Favourable geographic position is characterised by the proximity of the border with the Republic of Croatia and proximity of Mahovljani international airport.
8. **HAVE THE ACTIVITIES ON PROJECT IMPLEMENTATION ALREADY STARTED**
   Prepared feasibility study

9. **PROJECT APPLICANT AND CONTACT INFORMATION**
   JP DEP-OT REGIONALNA DEPONIJA BANJA LUKA
   Contact: Novo Grujić, Director
   Tel: 051/258-320
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