

INTEGRATED SOLID WASTE MANAGEMENT PROJECT (ISWMP) - JANAKPUR PACKAGE

SALIENT FEATURES

SN	FEATURES	CHARACTERISTICS		
GENERAL				
1	Name of Project	Integrated Solid Waste Management Project (ISWMP) - Janakpur Package (Janakpur Sub-Metropolitan City, Chhireswarnath Municipality, Mithila Municipality, Bardibas Municipality & Dhanusadham Municipality)		
2	Type	Waste Management		
3	Population and waste Generation		Total Population	Daily waste generation (ton/day)
		Janakpur	177527	56.28
		Chhireswarnath	47358	15.01
		Mithila	50279	15.94
		Bardibas	73868	23.42
		Dhanusadham	50836	16.12
		Total	399868	126.76
		Average Waste Composition (% by weight)	Organic	71.53
	Reusable/ Recyclables	28.15		
	Others (Including Hazardous Waste)	0.41		

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PROJECT LOCATION

1	Province	Province 2
2	Land Availability	8.01 acres of land available
3	Project Location	Janakpur (Location Map)

PROJECT COMPONENT/TECHNOLOGY

1	Collection of waste	<ul style="list-style-type: none"> ■ Household and commercial waste collection on certain interval
2	Anaerobic Digestion	<ul style="list-style-type: none"> ■ Mesophilic (35-38 °C) / Thermophilic (above 50 °C) ■ The methane gas will be compressed, bottled and sold to local market ■ Organic Fertilizer and Pesticide will be generated

MARKET ASSESSMENT

1	Project Demand Scenario	<ul style="list-style-type: none"> ■ There is a pressure on municipalities to Improve and modernize the collection methods and disposal technology. ■ There is a need to reduce the pressure on waste disposal practices and prices ■ 80% reduction in the current volume of waste going to landfill site which will extend the life of landfill site in the future. ■ The creation of renewable energy and other environmental benefits ■ Demand for organic fertilizer and pesticide are very high in local market ■ recyclable product could be sold or processed
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DEVELOPMENT MODALITY

1	Development modality	Public Private Partnership
2	Role of Government of Nepal	<ul style="list-style-type: none"> ■ Provide government land, Land acquisition, facilitation and project security ■ Facilitating various legal approvals/permits for the smooth operations of the project ■ Setting up institutional framework for review & monitoring
3	Role of the Private Sector	<ul style="list-style-type: none"> ■ Plan, design, finance, engineer, construct, and develop the envisioned facilities and other components of the project ■ Operate, maintain and manage the project facility throughout the Concession Period ■ Development and execution of marketing and advertising strategies ■ Collection of revenues from the project during the Concession Period ■ Handover to the Government after the Concession Period
4	Development Period	<ul style="list-style-type: none"> a. Pre- Construction Period: 6 months b. Financial Closure: 6 months c. Construction Period: 3 years d. Concession Period: 20 years (Up to 30 years)

INDICATIVE FINANCIALS

1	Total Project Cost (including Interest During Construction)	~ USD 6.40 million
2	Interest Rate (including hedging cost)	12.00%
3	Project IRR	14.82%
4	Equity IRR	16.43%