

INTEGRATED SOLID WASTE MANAGEMENT PROJECT (ISWMP) - DHULIKHEL PACKAGE

SALIENT FEATURES

SN	FEATURES	CHARACTERISTICS	
GENERAL			
1	Name of Project	Integrated Solid Waste management Project (ISWMP) - Dhulikhel Package (Dhulikhel Municipality, Banepa Municipality, Panauti Municipality, Namobuddha Municipality, Panchkhal Municipality)	
2	Type	Solid Waste Management Project	
3	Population and Daily Waste Generation	Total Population	Daily waste generation (ton/day)
	Dhulikhel	36,561	11.59
	Banepa	61,927	19.63
	Panauti	57,292	18.16
	Namobuddha	32,862	10.42
	Panchkhal	42,578	13.50
	Total	231,220	73.30
	Average Waste Composition (% by weight)	Organic	74.00
		Reusable/Recyclables	20.00
		Others (Including Hazardous Waste)	6.00

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PROJECT LOCATION

1	Province	Province 3
2	Location	Dhulikhel (Location Map)

PROJECT COMPONENT/TECHNOLOGY

1	Anaerobic Digestion	<ul style="list-style-type: none"> ■ Mesophilic (35-38 degree Centigrade) / Thermophilic (above 50 degree centigrade) ■ The methane gas will be compressed, bottled and sold to local market ■ Compost will be formed and sold to the local market as organic fertilizer
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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
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DEVELOPMENT MODALITY

1	Development modality	Public Private Partnership
2	Role of the Government of Nepal	<ul style="list-style-type: none"> ■ Provision of government land, land acquisition, facilitation and project security ■ Facilitating legal approvals/permits ■ Review & monitoring
3	Role of the Private Sector	<ul style="list-style-type: none"> ■ Plan, design, build, finance and operate the facilities during the Concession Period ■ Collection of revenues from the project during the Concession Period ■ Handover to the Government after the Concession Period
4	Development Period a. Pre-Construction Period b. Financial Closure c. Construction Period d. Concession Period	<ul style="list-style-type: none"> ■ 6 Months ■ 6 Months ■ 3 Years ■ 20 Years (upto 30 years)

INDICATIVE FINANCIALS

1	Total Project Cost (including Interest During Construction)	USD 4.3 million
2	Interest Rate (including hedging cost)	12%
3	Project IRR	14.26%
4	Equity IRR	15.43%