

INTEGRATED SOLID WASTE MANAGEMENT PROJECT (ISWMP) - JEETPURSIMARA PACKAGE

SALIENT FEATURES

SN	FEATURES	CHARACTERISTICS	
GENERAL			
1	Name of Project	Integrated Solid Waste management Project (ISWMP) - Jeetpursimara Package (Jeetpursimara Sub-Metropolitan City, Kalaiya Sub-Metropolitan City, Mahagadhimai Municipality, Nijgadh Municipality, Kolhabi Municipality)	
2	Type	Solid Waste Management Project	
3	Population and Daily Waste Generation	Total Population	Daily waste generation (ton/day)
	Kalaiya Sub-Metropolitan City	145684	46.18
	Jeetpursimara Sub-Metropolitan City	138423	43.88
	Nijgadh Municipality	41628	13.20
	Mahagadhimai Municipality	63253	20.05
	Kolhabi Municipality	50701	16.07
	Total	439689	139.38
	Average Waste Composition (% by weight)	Organic	83.07
		Reusable/Recyclables	14.71
		Others (Including Hazardous Waste)	2.22

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PROJECT LOCATION

1	Province	Province 2
2	Project Location	Jeetpursimara (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 ■ 25 Years (upto 30 years)

INDICATIVE FINANCIALS

1	Total Project Cost (including Interest During Construction)	USD 8.3 million
2	Interest Rate (including hedging cost)	12%
3	Project IRR	13.96%
4	Equity IRR	14.72%