

Proponent: Instromedix Waste Management Private Limited (Earlier Instromedix (India) Pvt. Ltd)

**Executive summary** 

## EXECUTIVE SUMMARY

#### 1. INTRODUCTION

The proposed project involves the installation of a common Bio-Medical Waste Treatment Facility (CBWTF) at Khasra No. 201, Near Moda Pahar, Jhunjhunu, Rajasthan promoted by M/s Instromedix Waste Management Private Limited (Earlier Instromedix (India) Pvt. Ltd). The project will cater to the biomedical waste disposal needs of the Churu, Sikar and Jhunjhunu district of Rajasthan. The total plot area of the project is 10624.62 sq. m (1.06 Ha) has been leased to Instromedix (India) Pvt. Ltd) by Municipal Council, Jhunjhunu, Rajasthan for setting up Common Bio-medical Waste Treatment Facility (CBWTF).

The project activity is covered under the ambit EIA Notification 2006 & its subsequent amendments dated 17.04.2015 and is classified as Category B project listed under item '7 (da)' (Common Bio Medical Waste Treatment Facility) in the Schedule to the EIA Notification and therefore, requires prior Environmental Clearance from SEAC/SEIAA Rajasthan. Baseline data for one season i.e. winter season (December 2023-February 2024) was collected within study area of 10 km radius.

#### 2. BRIEF DESCRIPTION OF THE PROJECT

Table 11.1: Brief Description of the Project

S.No.	Particulars	Details
1.	Project	Proposed Common Bio-medical Waste Treatment
		Facility (CBWTF), Jhunjhunu
2.	Site Address	Khasra No. 201, Near Moda Pahar, Jhunjhunu, Rajasthan
3,	Promoter	Instromedix Waste Management Private Limited
	*	(Earlier Instromedix (India) Pvt. Ltd)
4.	Plot area (sq. m.)	10624.62 sq. m (2.62 acres)
5.	Greenbelt & Plantation Area	4887.33 sq.m (46% of the total plot area)

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S.No.	Particulars	Details			
6.	Geographical Coordinates	As under: -			
		Point 1	Point 1		oint 2
		Latitude : 28° 9'9.0	6"N	Latitude : 28° 9'7.86"N	
		Longitude: 75°23'36	.60"E	-	75°23'38.64"E
		Point 3			oint 4
		Latitude : 28° 9	'5.26"N		: 28° 9'4.31"N
		Longitude : 75°23′	38.64"E		75°23'40.05"E
		Point 5			oint 6
		Latitude : 28° 9	'4.30"N	Latitude	: 28° 9'3.10"N
		Longitude : 75°23			:75°23'40.34"E
			Poin		
		Lati		28° 9'3.11"N	
		Longi	tude :	75°23'36.65".	ե ———≕
7.	Project capacity	As under: -			
		Particular	Capa 		Nos.
		Incinerator		KG/hr	1
		Autoclave	150 1	t/batch	1
		Shredder	150	kg/hr	1
		Ash Pit		-	< 1
		Sharp Pit		-	1
		ETP	10	KLD	1
		STP	1 k	KLD	1
8.	Areas catered	Sikar, Churu and Jhu	ınjhunu D	istrict of Ra	jasthan
9.	Healthcare units	883 units			. 11
10.	No of beds	10739 nos.			
8.	Estimated Biomedical waste	4027 kg /day			
		(@1.5 kg/day/bed,25	5% of the t	total waste g	generation)
		Source: National bu		_	-
9,	Water requirement (KLD)	Total daily water rec	uirement	:	13.0 KLD
	& Source	o Fresh water req			7.34 KLD
		o Recycled water			5.66 KLD
		Source: Ground water Supply			

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S.No.	Particulars	Details
10.	Power requirement and source	Power demand : 100 kva
		Source : JVVNL
11.	Power Back up source	o Number : 1 No.
		o Capacity : 125 kVA
		o Fuel : HSD
		o Fuel Requirement : 80 lt/hr
12.	Employment generation	25 persons
13.	Waste Water Generation & i	Process: 5.2 KLD, to be directed to proposed ETP &
	management	• treated water will be recycled for scrubbing water
		makeup
		• Domestic: 0. 8 KLD to be directed to proposed STP
		& treated water will be recycled for greenbelt
	*	development & maintenance.
14.	Solid waste generation & its	MSW: 8 Kg/day to be collected & segregated using
	Management	color coded bins for final disposal to municipal waste
		disposal site.
		• STP Sludge: 0.08 KLD to be used as manure for
		landscaping after drying.
		• Ash from incinerator and flue gas cleaning residue to
		be disposed off to nearest TSDF.
	, v	• ETP Sludge: 0.26 KLD to be disposed off to nearest
		TSDF
		• Used oil or spent oil: approx. 5 litres per month to be
		handed over to authorized recyclers.
15.	Project cost	Rs. 1.0 Crores
16.	EMP Budget	Capital cost : Rs. 150 lacs
		Recurring cost : Rs. 13.5 lacs
Projec	t connectivity & Environmental	Sensitivity
17.	Nearest Village	Singodiya Colony : 0.9 Km towards ESE
19.	Nearest Town/City	Jhunjhunu City : 2.2 Km towards SSE
20.	Nearest Airport	Jhunjhunu Airstrip : 5.2 Km towards SSW

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S.No.	Particulars	Details
		Jaipur International Airport 152 Km towards SSE
21.	Nearest Railway Station	Jhunjhunu Railway station 4.95 km towards S
22.	Nearest National Highway/ State	Jhunjhunu-Rajgarh Highway 1.3 Km towards ENE
	Highway /Major Road	SH 41 1.3 Km towards SW
		SH 37 1.8 Km towards SW
		NH 11 2.2 Km towards SE
		SH 8 5.0 Km towards SSW
23.	National Park/ Wild Life	None within 10 Km radius
	Sanctuary/Wildlife Corridors/	•
	Eco-Sensitive Zone	<b>≩</b> 7:
24.	Reserve Forest (R.F), Protected	Jhunjhunu P.F. 2.15 Km towards E.
	Forest (P.F)	4.5
25.	Watercourses or other water	Kantli River: 14.3 Km towards ENE
	bodies in 10 km radius area	
26.	Defense Installations	None in 10 km radius area.
28.	Seismic Zone	Zone – III (Moderate Damage Risk Zone) as per IS –
		1893 (Part-1) -2002
29.	Archaeologically important	None within 10 km radius
	monuments	·

## 3. DESCRIPTION OF THE ENVIRONMENT

## 3.1. AIR ENVIRONMENT:

Ambient air quality monitoring has been carried out with a frequency of twice a week for one season at 08 locations. Ambient air quality of the study area is in conformity with respect to norms of National Ambient Air Quality standards by CPCB.

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### **Summary of Baseline monitoring results**

- PM 10 found to be varying between 69.21 μg/m3 to 80.73 μg/m3
- PM<sub>2.5</sub> found to be varying between 34.05 μg/m3to 49.73 μg/m3
- SO<sub>2</sub>, found to be varying between 6.74 μg/m3 to 10.20 μg/m3
- NO<sub>x</sub> found to vary between 12.83 μg/m³ to 17.39 μg/m³
- CO found to be varying between 0.48 mg/m³ to 0.93 mg/m³

### 3.2. WATER ENVIRONMENT

Ground water quality has been monitored at 08 locations in the study area. Surface water quality has been monitored at 0 locations as there were no surface water body within 10 km radius.

#### **Ground Water:**

- During study period, pH values observed were in the range of 7.18 to 7.53.
- The total hardness is varying from 426 mg/l to 576 mg/l
- The total dissolved solids are varying from to 1289 mg/l to 1608 mg/l
- Alkalinity concentration range 310 mg/l to 423 mg/l
- The concentration of chlorides was in the range of 296.2 mg/l to 246.5 mg/l
- Total coliform & E. coli was found absent at all the eight monitoring locations.
- The concentration of Heavy metals likes was found to be below the acceptable limit.
- Total coliform & E. coli was found absent at all the monitoring locations.

#### Surface Water:

No Surface water body within 10 km radius of the project site.

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# 3.3. SOIL ENVIRONMENT

Soil Samples were collected as per standard procedure from eight locations. Sampling was done from the ground up to one foot depth.

#### Results

- Texture of the soil samples is sandy.
- Soil pH is a characteristic that describes the relative acidity or alkalinity of the soil. pH of the soil samples ranged from 7.22 to 7.72, which reflects that the soil is slightly alkaline to moderately alkaline in nature.
- The Electrical conductivity levels can serve as an indirect indicator of the amount of water and water-soluble nutrients available for plant uptake. The EC in soil samples representative of study area ranged between 354 μmhos/cm to 448 μmhos/cm which is considered very slightly saline and harmful to germination of crops.
- The organic Carbon in the soil ranged from 0.42% to 0.56% which is considered medium and on an average sufficient.

#### 3.4. NOISE ENVIRONMENT

The sources of noise pollution in the study area are process, noise due to commercial activities, noise generated by community, vehicular traffic, etc.

Ambient noise levels were measured at 8 locations around the proposed project site. Maximum and Minimum noise levels recorded during the day time were from 58.2 dB and 47.1 dB, respectively and Minimum and maximum level of noise during night time was 45.8 dB and 36.4 dB, respectively.

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## 3.5. BIOLOGICAL ENVIRONMENT

The entire study area was covered in the best possible manner. To enlist the flora, fauna and avifauna.

- 1. An inventory of the various plant groupings observed in the study region was created. In the research region, 12 species of flora were identified in core zone and 167 species of flora were identified in Buffer Zone 50 species of trees, 36 species of shrubs, 81 species of herbs & grasses, have been recorded in the study area of Buffer Zone based on information collected from the primary and secondary data.
- 2. Analysis of Fauna: A 161 number of faunal terrestrial species comprising mammals, reptiles, Birds, Amphibians and Butterfly were recorded from the study area. However, 07 Schedule I species as per WPAA, 2023 is present in the study area that are Mammals: Schedule I: 02; Avifauna: Schedule I: 2, Reptiles and Amphibians Schedule I: 3. No National Park, Wildlife Sanctuary Falls within 10 km radius study area.
- 3. Green belt Development and Plantation with suitable indigenous Local Fast-Growing species will improve the environment. Greenbelt Development around the periphery of proposed project. Total No. of Tree 1222 nos., shall be planted with in the project area. Plant species like Tecomella undulata, Neolamarckia cadamba, Azadirachta indica, Plumeria alba and Prosopis cineraria etc.

### 3.6. SOCIO-ECONOMIC ENVIRONMENT

The study area of the project comprises of 10 km radius and the total population of the study are as per census 2011 is 177724. There are 31063 households of which 18.48 % household's falls in 0 to 2 km, 51.83 % households in 2 to 5 km and 29.69 % households in 5 to 10 km respectively. The total male population consists of 51.47% and female population accounts to be 48.53% of the total population. The sex ratio of the 10.0 km study area is 943 females over thousand males. In the study area the literate persons are 113884, which is 64.08% of the total population. The male literates are 73.15% of the total male population and female literates are 54.46% of the total female population.



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# 4. ANTICIPATED ENVIRONMENTAL IMPACTS

These include impact on air quality, noise, water quality, solid waste, ecology and socio economics, etc. The modelling and analysis of the data indicate that the predicted impacts are minimal and are within the prescribed norms and standards. Comprehensive mitigation measures have been incorporated in the environmental management plan to ensure that the environmental quality is protected and enhanced. These have been summarised in **Table below:** 

Table 11.2: - Anticipated Environmental Impacts & Mitigation Measures during construction phase

<b>Environmental Attribute</b>	Impact	Mitigation measures
Land	•	
Land	The existing land cover of the	o The present land use of plot area is
	proposed project site will get	designated for setting up a common
	minimally affected as only	biomedical waste treatment facility.
	activities like clearance of shrubs,	o Proposed greenbelt development &
	preparation of internal roads,	plantation will improve the aesthetics of the
	excavation and paving of site for	area.
	installing plant equipment and	o The proposed project having an area of
	machinery, is required.	10,624.62 sq.m (2.62 acres) leased by
	7	Municipal Council, Jhunjhunu for a period
	<u>.</u>	of 20 years to M/s Instromedix Waste
	- 	Management Private Limited (Earlier
•	÷ 9-	Instromedix (India) Pvt. Ltd) for setting up
	<u> </u>	a Common Bio-medical Waste Treatment
	.* ×	Facility (CBWTF).
	:	o On completion of civil works, all debris
		etc. will be completely removed from site
		to avoid any incompatibility with future
	~	use.
	<u> </u>	o All the wastes will be stored at a designated
	-1	
		site within the premises to prevent scattered
Q. II	Call contamination I	discharge on land.
Soil	Soil contamination due to	• Contaminated soil will be scrapped off &
	spillage of materials,	disposed off to authorize TSDF.
	construction debris / waste on	• Proper segregation & storage of

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<b>Environmental Attribute</b>	Impact	Mitigation measures  Construction waste within premises.
	<ul> <li>Ind</li> <li>Spillage of fabrication waste material containing metal and paint</li> <li>Exhaust emissions like PM,</li> </ul>	<ul> <li>Construction waste will be reused with a site to the extent possible &amp; disposed off as per C&amp;D Rules.</li> <li>Storm water will be properly channelized to avoid water logging.</li> </ul>
Air Quality	CO, NOx from vehicles.  Exhaust PM, CO, NOx & unburnt hydrocarbons from construction machinery & DG set.  Dust generation from earthmoving, grading and civil works, and movement of vehicles	<ul> <li>marginal, for short duration and its impact will be felt close to the construction site only.</li> <li>Moreover, as the infrastructure like paved roads are already available, the impact is likely to be reduced</li> <li>The composition of dust in this kind of the composition of dust in this kind of the composition.</li> </ul>
Noise Levels	The major activities, which produce periodic noise, during construction phase, are as follows:	<ul> <li>The impact of noise generated on the environment is likely to be low, reversible and localized in nature</li> <li>The construction work will be carried out</li> </ul>
	✓ Foundation works, Fabrication of structures	<ul><li>during daytime only.</li><li>Vehicles will be speed controlled.</li></ul>

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Environmental Attribute	Impact	Mitigation measures
	<ul> <li>✓ Plant erection</li> <li>✓ Operation of construction equipment</li> <li>✓ Movement of vehicles etc</li> <li>The peak noise levels from continuous construction activity may be about 85-90 dB (A).</li> </ul>	<ul> <li>Machinery &amp; equipment will be provided with silencer, wherever feasible.</li> <li>Ensuring that DG sets are provided with acoustic enclosures and exhaust mufflers; and</li> <li>Ear plugs/mufflers shall be provided to the workers working in high noise level areas.</li> <li>Avoiding continuous exposure of workers to high noise areas.</li> </ul>
Water Quality	lubricant, fuel other	<ul> <li>No surface water will be used for construction phase.</li> <li>The construction in the project will be more related to mechanical fabrication, assembly and the erection; hence the water requirement would be small.</li> <li>Temporary sanitation facilities like mobile toilets will be ensured through contractor for disposal of sanitary sewage during construction phase.</li> <li>Construction waste will be reused within site to the extent possible &amp; remaining will be disposed off as per C&amp;D Rules through contractor.</li> <li>Excavation during dry season only and proper management of excavated soil.</li> <li>Removal &amp; proper disposal of all the debris from site, as soon as construction is over.</li> <li>Storm water drains as per contour &amp; drainage pattern.</li> <li>Bio-toilets provided by contractor for disposal of domestic sewage.</li> <li>Chemicals such as paints and varnishes and oil / grease shall be stored under covered area with impervious flooring before disposal</li> </ul>

(-45 mm)
120 (100)

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Environmental Attribute	Impact	Mitigation measures
Environmental Attribute  Ecology	The impact on the surrounding ecology due to the project will mainly occur from the deposition of dust generated due to construction activities onto the nearby vegetation or clearing/cutting of trees etc in the	<ul> <li>Wash offs containing hazardous substances such as paints and varnishes and oil / grease should be drained into impervious trays / barrels for disposal as hazardous wastes.</li> <li>No National Park, wildlife sanctuary, biosphere reserve exists within 10 km area of the project.</li> <li>Dust screens will be installed &amp; water sprinkling will reduce dust generation.</li> </ul>
Socio-Economic Environment	<ul> <li>The project will have positive impact on the socio-economics of the area.</li> <li>Local labour particularly unskilled labour will be employed based on eligibility, during construction phase.</li> </ul>	<ul> <li>The locals would get opportunities for employment due to the proposed project.</li> <li>In addition to employment opportunity as construction laborers, the local population would also have employment opportunities based on the educational qualification like petty commercial establishments, small contracts/sub-contracts and supply of construction materials for buildings and ancillary infrastructures etc.</li> </ul>
Occupational & Community Health	<ul> <li>Over-exertion, and ergonomic injuries and illnesses, such as repetitive motion, over-exertion, and manual handling, are among the most common causes of injuries in construction activities.</li> <li>Respiratory issues due to dust</li> <li>High blood pressure etc. due to continuous working near noise generating machinery</li> </ul>	<ul> <li>Use of PPEs such as dust masks &amp; ear muffs will be ensured to workmen to reduce occupational health hazards.</li> <li>Implementation of administrative controls into work processes, such as job rotations and rest or stretch breaks will be done.</li> <li>Water sprinkling for dust suppression to minimize dust from vehicle movements &amp; construction activities.</li> </ul>

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Environmental Attribute	Impact	Mitigation measures
Environmental Attribute Solid & hazardous waste generation & management	<ul> <li>Impact</li> <li>Construction waste:</li> <li>Construction waste in terms of broken bricks, dry wall, wood etc will be generated.</li> <li>Solid wastes in terms of food packet wrappers, paper, plastic drums, cardboard, paints, oil containers etc. will be generated.</li> </ul>	<ul> <li>Mitigation measures</li> <li>The construction waste will be segregated &amp; used within premises to the extent possible (inert waste) &amp; the remaining will be deposited at collection center so made by the local body or handover to the nearest authorized processing facility of C&amp;D waste, through contractor.</li> <li>It will be ensured that there is no littering or deposition of construction and demolition waste so as to prevent obstruction to the</li> </ul>
		<ul> <li>traffic or the public or drains.</li> <li>Hazardous waste generated such as used oil, paint containers etc shall be stored temporarily within plant premises &amp; handed over to authorized recyclers.</li> </ul>

Table 11.3: Anticipated Impacts & mitigation measures during Operation phase

S. No.	Environmental	Source	Pollutants/Impact	Mitigation	
	component		* 1	ne patriote	
1.	Air Quality	DG set	SO <sub>2</sub> , NOx, HC, CO &	• Stack Height of 3.5 m (above roof)	
	inibia.		PM emissions	shall be provided for proper dispersion	
				of air pollutants.	
	,-		1 , i 4, i = 0	Use of low sulphur diesel (HSD)	
	1 27			Use of DG Set as backup power source	
			A.	only	
		Incinerator	PM, SO <sub>2</sub> , NOx, HCl,	Stack: stack height of 30 m meeting	
			CO, TOC, dioxin &	MOEF&CC Guidelines for proper	
			furan etc.	dispersion of cleaned gases in atmospher	
. 2			6	Rapid quencher: Rapid quenching	
7.00			F F	system to prevent reformation of dioxins	
				Droplet separator: for removal of	
			#1	droplets	
			5 H	Bag House Filter: Flue gases are passed	
				through bag filters for removal of	

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Environmental	Source	Pollutants/Impact	Mitigation
component			
			particulates.
			Adsorption by activated carbon to remove
			any dioxin & furans in the flue gases.
			Wet Scrubber: Removal of particulate
		400	matter, neutralization of acidic gases and
		147 (	removal of organic constituents.
		7	Mist eliminator: Often there is a need to
			eliminate the mist in the stack emissions,
,		·	therefore, de-mister is provided.
		,	ID Fan: to maintain the entire system in
			negative draft for proper removal of flue
		,	gases.
			Complete combustion with adequate
			residence time will be done to prevent the
			formation of dioxin and furans.
	Vehicular	PM, CO, HCs etc	Only vehicles with PUC certification
	movement		will be allowed.
,			Regular & preventive maintenance of
			vehicles.
Water Quality	• Discharg	ge of untreated wastewater	No surface water will be used for
	outside t	he project premises.	operation
	• Depletio	n of water sources due to	Domestic wastewater will be
	use of g	round water or/& surface	discharged through septic tank into
	water.	;	soak pit.
	• Run-off	contamination in case of	All the waste will be stored as per
	any leal	kage from waste storage	guidelines in storage area with
	area.		impervious flooring to control any
	3.6		leachate and prevent ground/surface
			water contamination.
			Catch drains connected to ETP will be
			provided around storage area, vehicle
	component	Vehicular movement  Water Quality  • Discharge outside to the state of great water.  • Run-off any leaf	Vehicular movement  PM, CO, HCs etc  Water Quality  Discharge of untreated wastewater outside the project premises.  Depletion of water sources due to use of ground water or/& surface water.  Run-off contamination in case of any leakage from waste storage

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S. No.	Environmental component	Source	Pollutants/Impact	Mitigation
				<ul> <li>washing area.</li> <li>Periodical monitoring of Ground &amp; surface water quality will be done as per guidelines.</li> </ul>
3,	Noise level	plant incinera compres ambient Increase nuisance noise le cause physiole annoyan sleep int	movement & noise from & machinery like ator, DG Set, fans, blowers, assors etc will increase through noise level.  The description of the set o	<ul> <li>Noise level specification of the various equipment as per the OSHA standards.</li> <li>Providing suitable enclosures (adequate insulation) to minimize the impact of high noise generating sources.</li> <li>Employees will be provided with PPE like ear plugs &amp; ear muffs.</li> <li>Development of greenbelt all along the boundary &amp; plantation within project site will help attenuate noise propagation.</li> </ul>
4.	Socio-Economic Environment	Infrastru	ment generation acture development ad living standards	<ul> <li>No displacement is proposed</li> <li>Direct &amp; indirect employment opportunities will be generated.</li> </ul>
5.	Biological Environment	plant & mac & disposal o impact:  • Direct vegetatic accumul • Indirect soil pH	25	<ul> <li>No wildlife sanctuary, National Parks, biosphere reserves etc is situated within 10 km radius from the site.</li> <li>Green belt development &amp; plantation with suitable plant species will enhance the aesthetic Environment.</li> </ul>

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## 5. ENVIRONMENTAL MONITORING PROGRAMME

Regular monitoring of environmental parameters like air, water, noise and soil as well as performance of pollution control devices and safety measures in the project and proper environmental management will be carried out periodically as per conditions stipulated in statutory clearances, rules and guidelines & as recommended for proper environmental management.

#### 6. ADDITIONAL STUDIES

## Risk Assessment & Safety Measures

Details of risk assessment and disaster management plan are given in Chapter VII.

Following procedure will be followed for effective management risk & hazard:

Step 1: Identification of Disaster risk:

Step 2: Identification of persons at risk

Step 3: Removal of Hazard

Step 4: Evaluation of the risk

Step 5: Control measures to be taken

Step 6: Maintain Assessment records

Step 7: Review

#### 7. PROJECT BENEFITS

M/s Instromedix Waste Management Private Limited (Earlier Instromedix (India) Pvt. Ltd) will provide assistance for the development of public amenities in the nearby areas. The overall effect will further improve the buying power of people and thus a higher standard of living viz. better education, improved health and sanitation facilities, housing and acquisition of consumer durables. Housing, transport, medical, educational and other civic amenities will further improve in the future. This is envisaged as a major positive benefit.



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**Executive summary** 

# 8. ENVIRONMENT MANAGEMENT PLAN

A site-specific Environmental Management Plan as per EMP given in this report shall be formulated and will be diligently practiced at M/s Instromedix Waste Management Private Limited (Earlier Instromedix (India) Pvt. Ltd). Environment management cell and a site-specific environment management policy shall be put in place to address environmental issues, monitoring and compliance of statutory clearances. An amount of Rs. 150 lacs will be allocated as capital cost and Rs. 13.5 lacs will be allocated as recurring cost.

## 9. CONCLUSION

EIA study has been conducted as per the TOR issued to the project by SEIAA/SEAC Rajasthan. Various environmental attributes related with aspects of Common biomedical waste treatment facility were studied & the impacts were identified and evaluated. Considering all the possible ways to mitigate the environmental concerns Environmental Management Plan was prepared and accordingly fund was allocated. The EMP is dynamic, flexible and subject to periodic review.

It has been assessed that the study area shall not been affected adversely with the proposed project which is a standalone biomedical waste incinerator to tackle the biomedical waste disposal problem and likely to bring economic incentive, not only for the study area but also for the region as a whole.

The project will increase the revenue of the State Govt. as well as it will help in the social upliftment of the local people. The greenbelt development programme will help in increasing the green cover. Thus, the proposed project is not likely to affect the environment or adjacent ecosystem adversely. M/s Instromedix Waste Management Private Limited (Earlier Instromedix (India) Pvt. Ltd), Management will be responsible for the project review of EMP and its implementation to ensure that the EMP remains effective and appropriate. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP and the project will bring a net positive impact in the study area.

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