Application for Grant of Terms of Reference
for
"Proposed Common Biomedical Waste Treatment Facility"

At

Plot No. D-17, Eldeco, SIDCUL Industrial Park, Sitarganj, Uttarakhand – 262405

Activity 7d(a), category B

Plot area: 4125 m^2 (0.4125 ha.)

Cost of the project: Rs. 302 Lakhs

Project Proponent

National Biomedical Waste Solutions

W. No. 6, Kichha Road, Near SDM Niwas,

Rudrapur, Uttarakhand – 263153

Environmental Consultant

AMALTAS
CONSULTANTS

Amaltas Enviro Industrial Consultant LLP.

(NABET Accredited EIA Consultants Organization)

NABET-Certificate Number – NABET/EIA/1821/RA0141(Rev. 01)

2925- Basement, Sector -46, Gurugram- 122003

NATIONAL BIOMEDICAL WASTE SOLUTIONS

ADD. W. No. 6, Kichha Road, Near SDM Niwas, Rudarpur, Uttrakhand-263153

Date: 2nd Nov., 2021

To,

Member Secretary

State Level Environment Impact Assessment Authority (SEIAA),

653, Indira Nagar Colony, Seemadwar Road,

Dehradun, Uttarakhand.

Subject- Grant of Terms of Reference (ToR) for Environment Clearance of Project- "Proposed Common Biomedical Waste Treatment Facility at Plot No. D-17, Eldeco, SIDCUL Industrial Park, Sitarganj, Uttarakhand- 262405 by National Biomedical Waste Solutions.

Dear Sir,

With reference to the above mentioned subject. We are hereby submitting the application for Grant of "Terms of Reference (ToR)" as per the requirements of EIA Notification, 2006 and subsequent amendments. Accordingly, we are submitting application for grant of Grant of "Terms of Reference (ToR)" along with the following documents:-

1- Dully filled Form -1

2-Pre- feasibility Report

3-Relevant Annexures (Allotment letter, project file etc.)

We request you to consider our proposal for grant of "Terms of Reference (ToR)" for the above- mentioned project.

Thanking You,

Yours Faithfully,

M/s National Biomedical Waste Solutions.

Sushil

(AUTHORISED SIGNATORY)

Section 1: FORM 1

APPENDIX – I

(See paragraph – 6)

FORM I

(I) Basic Information

S.NO.	ITEM	DETAILS
1	Name of the project/s:	Installation Of Common Biomedical Waste Treatment Facility And Plastic Waste Management Facility
2	S. No. in the schedule	7 (d)
3.	Proposed capacity/area/length/tonnage to be handled/command area/lease area/ number of Wells to be drilled.	Total extent of **0.4125 Ha (4125 m^2)**
4.	New/Expansion/Modernization	New
5.	Existing Capacity Area etc.	Nil
6.	Category of Project i.e.' A' or 'B'	B
7.	Does it attract the general condition? If yes, Please specify.	No
8.	Does it attract the specific condition? If 'yes, Please specify.	No
9.	Location	
	Plot/Survey/Khasra No.	Plot No. D-17, Eldeco SIDCUL Industrial Park, Sitarganj - 262405, Uttrakhand
	Village	
	Tehsil / Taluk	Sitarganj
	District	Sitarganj
	State	Uttrakhand
10.	Nearest railway station/airport along with Distance in kms.	Pantnagar Railway Station –20 kms Pantnagar Airport- 20 kms
11.	Nearest Town, city, District Headquarters Along with distance in kms.	Sitarganj is the nearest Town located at a distance of 13 kms.

12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal Address with telephone	Teora Village, Sitarganj, Uttrakhand
13.	Name of the applicant	Mr. Sushil Gupta
14.	Registered Address	Plot No. D-17, Eldeco SIDCUL Industrial Park, Sitarganj - 262405, Uttrakhand Kerala State-690 527
15.	Address for correspondence:	
	Name	Mr. Sushil Gupta
	Designation (Owner/Partner/CEO)	Director
	Address	Kichha Road, Old SDM Compound, Behind Rampura Police Station, Rudrapur-263153
	Pin Code	263153
	E-mail	
	Telephone No.	+91 7248511099
	Fax No.	Nil
16.	Details of Alternative Sites examined, if any. Location of these sites should be	Nil
17.	Interlinked Projects	Nil
18.	Whether separate application of interlinked Project has been submitted?	Nil
19.	If yes, date of submission	Nil
20.	If no, reason	It is a dedicated industrial zone
21.	Whether the proposal involves approval/ clearance under: if yes, Details of the same and their status to be given. (a) The Forest (Conservation) Act, 1980? (b) The Wildlife (Protection) Act, 1972 The C.R.Z. Notification, 1991?	Nil
22.	Whether there is any Government Order/ Policy relevant/ relating to the site?	Nil
23.	Forest land involved (hectares)	Nil

24.	Whether there is any litigation pending against the project and /or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. Orders/directions of the Court, if any and its relevance with the proposed project.	There is no litigation pending against the project.

(II) Activity

1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	**Yes**	The total available land for the proposed project is 0.4125 Ha. The land is already under the possession of National Biomedical Waste Solutions. Now, the company is planning to establish a Bio medical facility in the same premises. The land use pattern will be changed permanently due to the establishment of a Bio medical facility. There will be no change in the topography.
1.2	Clearance of existing land, vegetation and buildings?	**No**	The land is under the possession of National Biomedical Waste Solutions and there would not be any significant clearance of land & vegetation required and there is no any permanent structure available at site.

1.3	Creation of new land uses?	**Yes**	Construction & setting up of proposed plant will change the land use permanently.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	**Yes**	Geophysical investigation, including in situ testing, for the characterization of surface and sub surface soil properties has been already carried out.
1.5	Construction works?	**Yes**	Construction / Erection work to be taken up after getting environmental clearance.
1.6	Demolition works?	**No**	No demolition work is required at the project site.
1.7	Temporary sites used for construction works or housing of construction workers?	**No**	Local workers will be employed during both construction phase. Thus, no temporary sites would be constructed for the housing of construction workers.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	**No**	Construction of facility will be according to site plan.
1.9	Underground works including mining or tunneling?	**No**	No underground mining or tunneling works involved in the project.
1.10	Reclamation works?	**No**	No reclamation work is required.
1.11	Dredging?	**No**	No dredging is involved.
1.12	Offshore structures?	**No**	Not Applicable
1.13	Production and manufacturing processes?	**No**	Not applicable as it is a Collection,storage and disposal facility ofbiomedical waste.
1.14	Facilities for storage of goods or materials?	**Yes**	Isolated storage facility for storageof biomedical waste will be providedat the site.
1.15	Facilities for treatment or disposal of	**Yes**	Waste water from the plant will be treated

	solid waste or liquid effluents?		in 5 KLD ETP. Solid waste like ash after incineration, chemically treated glass waste and autoclaved plastic bottles will be sold to the authorized recyclers.
1.16	Facilities for long term housing of operational workers?	**No**	No long term housing plan for the operational workers is planned in the proposed project. The local population residing in the surrounding area of the project site is expected to find employment opportunities from the project.
1.17	New road, rail or sea traffic during construction or operation?	**No**	There will be minor increase in traffic due to the movement of vehicles carrying construction materials during the construction phase & due to the movement of employees to & from the industry during the operation phase which will not have any major impact on the existing traffic in the region. The project site is well connected with Sidcul road, which is 0.8 km away in Eest direction. So, there will be negligible to no increase in the existing traffic in the area after the installation of proposed project.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc.?	**No**	The proposed site is well connected by road & railways, while Sidcul road is around 0.8 Km. No new infrastructure is envisaged for the proposed project.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	**No**	There will be no diversion of existing transport.

1.20	New or diverted transmission lines or pipelines?	**No**	There will be no diversion of transmission lines or pipelines.
1.21	Impoundment, damming, culverting, realignment or other changes to the Hydrology of watercourses or aquifers?	**No**	There will be no impoundment, damming, realignment or other changes to the hydrology of surface watercourse or aquifers. Moreover, the project area does not contain any watercourse.
1.22	Stream crossings?	**No**	There is no stream crossing in the project area.
1.23	Abstraction or transfers of water from ground or surface waters?	**Yes**	The total water requirement for the proposed facility is 13 KLD and this Water requirement for the project will be met through Ground Water as no water supply arrangement available near the site.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	**No**	There will be no change in water bodies or the land surface affecting drainage or run-off.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	**Yes**	Construction material will betransported from local market by covered vehicles. Local peoples will be employed during construction, operation or decommissioning phase and the movement of employees to & from the facility will not have any major impact on the existing traffic in the region.
1.26	Long-term dismantling or decommissioning or restoration works?	**No**	Not applicable
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	**No**	Not applicable

1.28	Influx of people to an area in either temporarily or permanently?	**No**	Temporary increase in workforce during construction phase. Local will be hired during operation phase to avoid influence on out siders.
1.29	Introduction of alien species?	**No**	Alien species will not be introduced.
1.30	Loss of native species or genetic diversity?	**No**	No, there will be no loss of native species or genetic diversity during the operation of project.
1.31	Any other actions?	**No**	No other actions are proposed.

2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

S. No.	**Information/checklist confirmation**	**Yes/No**	**Details thereof (with approximate quantities /rates, wherever possible) with source of information data**
2.1	Land especially undeveloped or agricultural land (ha)	**No**	The total available land for the proposed project is 0.4125 Ha. The land is already under the possession of National Biomedical Waste Solutions. Now, the company is planning to establish a Bio medical facility in the same premises.
2.2	Water (expected source & competing users) unit: KLD	**Yes**	The total water requirement for the proposed facility is 13 KLD and this Water requirement for the project will be met through Ground Water as no water supply arrangement available near the site.
2.3	Minerals (MT)	**No**	Not Applicable
2.4	Construction material – stone, aggregates, sand / soil (expected source –	**Yes**	All the construction material will be sourced from the local market.

	MT)		
2.5	Forests and timber (source – MT)	**No**	Obtained from local timber depots.
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	**Yes**	The power required for the facility is 52 KW will be fetched from Uttarkhand State Electricity Distribution Corporation Limited. For emergency backup DG set is maintained with optimal usage by using a High Speed Diesel with a capacity of 65 KVA. It will be installed in a separate room with proper acoustic enclosures to reduce the noise levels and proper rubber padding is also provided to curtail the vibrations.
2.7	Any other natural resources (use appropriate standard units)	**No**	No other natural resource will be required.

3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	**Yes**	The facility will be for collection, transportation , treatment and disposal of biomedical waste.

3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	**No**	Suitable drainage and waste management measures will be adopted during the operational phase. This will restrict stagnation or accumulation of water. This will effectively restrict the reproduction and growth of disease vectors.
3.3	Affect the welfare of people e.g. by changing living conditions?	**No**	Proper management of biomedical waste will reduce the probability of any adverse effect on people.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.	**No**	No vulnerable group of people are going to be affected due to the project.
3.5	Any other causes	**No**	No other causes are anticipated.

4. Production of solid wastes during construction or operation or Decommissioning (MT/month)

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	**No**	There will be no spoil, overburden or mine wastes.
4.2	Municipal waste (domestic and or commercial wastes)	**Yes**	During construction phase, construction debris will be used for construction site itself and therefore there will not be any solid waste problem from generation of construction-excavated earth. During operation phase, ash & sludge will be the main solid waste from the plant process. The waste will be send to Authorized TSDF Site.

4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	**Yes**	Proposed facility is for treatment of incinerable hazardous wastes and bio-medical waste. Ash generated from incineration operation shall be sent to nearest TSDF for ultimate disposal.
4.4	Other industrial process wastes	**Yes**	Not applicable.
4.5	Surplus product	**No**	There will be no surplus product.
4.6	Sewage sludge or other sludge from effluent treatment	**No**	The sludge from ETP will be handed over to the authorized treatment and disposal facility.
4.7	Construction or demolition wastes	**No**	Not Envisaged
4.8	Redundant machinery or equipment	**No**	Not Applicable
4.9	Contaminated soils or other materials	**No**	No soil contamination is anticipated from the proposed project
4.10	Agricultural wastes	**No**	There will not be any agricultural waste.
4.11	Other solid wastes	**No**	No other solid wastes are expected to be produced.

5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	**No**	Not applicable
5.2	Emissions from production processes	**Yes**	Emissions from incinerator stack emissions, DG set stack emissions, dust, odour & gas generation from secured landfill. It will be controlled by air

			pollution control system including spray drier for rapid quenching, multi cyclones, dry lime and activated carbon treatment, bag filters and wet alkali scrubber followed by ID fan with 30 m stack.
5.3	Emissions from materials handling including storage or transport	**Yes**	Emissions from handling hazardous waste and bio-medical waste storage and transport are controlled by handling it in closed containers.
5.4	Emissions from construction activities including plant and equipment	**No**	Fugitive emissions are likely during the construction & transportation activities due to use of construction equipment. These are temporary in nature.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	**Yes**	Dust is likely to be generated during construction phase, water sprinkling will be done to reduce dust emission. Tarpaulin cover will be provided over stored raw material to reduce dust emission.
5.6	Emissions from incineration of waste	**No**	Emissions from incinerator stack emissions. It will be controlled by air pollution control system including spray drier for rapid quenching, multi cyclones, dry lime and activated carbon treatment, bag filters and wet alkali scrubber followed by ID fan with 30 m stack.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	**No**	There will be no burning of waste in open air.

5.8	Emissions from any other sources	**No**	No other emission source is anticipated.

6. Generation of Noise and Vibration, and Emissions of Light and Heat:

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	**Yes**	Noise levels are expected at Rotary Kiln, DG set area, and due to use of pumps and motors. Necessary PPEs (ear muffs, closed chamber) will be provided for the personnel's working in this area. Most of the equipment structures are static, vibration effectof these will be only local, design of support and foundation will nullify the intensity of vibrations.
6.2	From industrial or similar processes	**No**	Not applicable
6.3	From construction or demolition	**No**	Noise will be generated during construction activity and vehicular movement. Precautions will be taken to ensure no noise or vibrations will be generated.
6.4	From blasting or piling	**No**	Not Applicable
6.5	From construction or operational traffic	**Yes**	Construction will be done at night to avoid the traffic congestion. Valid PUC certified vehicle will be used for loading the raw material and product during operation phase
6.6	From lighting or cooling systems	**No**	No considerable noise will be generated from lighting or cooling systems.
6.7	From any other sources	**No**	No other source of noise and vibration is

			anticipated.

7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	**No**	Very minimal risk. care shall be taken while handling, hazardous waste during contaminations. Spill control measures shall be in place.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	**No**	Seweage along with Effluents generated from the proposed project will be sent to ETP. Treated water shall be used within the facility. No liquid effluent will be discharged outside without treatment. It is a ZLD project.
7.3	By deposition of pollutants emitted to air into the land or into water	**No**	Emissions from incinerator stack emissions, DG set stack emissions, dust, odour & gas generation from secured landfill. It will be controlled by air pollution control system including spray drier for rapid quenching, multi cyclones, dry lime and activated carbon treatment, bag filters and wet alkali scrubber followed by ID fan with 30 m stack.
7.4	From any other sources	**No**	Not Applicable
7.5	Is there a risk of long term buildup of pollutants in the environment from these sources?	**No**	Complete Environmental management System (EMS) will be installed which includes ETP, ATFC, Air Pollution Control

			measures and proper Hazardous Waste Handling and disposal as per norms. This will eliminate the possibility of long-term buildup of pollutants.

8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	**No**	Adequate steps for firefighting will be taken to control fires in case of emergency. During construction phase, no explosions and spillages or production of hazardous waste will take place in the proposed project. All the labors will be provided with suitable personal protective equipment (PPE) as required under the health & safetynorms.
8.2	From any other causes	**No**	Workman will be provided with suitable personal protective equipment (PPE) as required under the health & safety norms. Training and awareness about the safety norms will be provided to all supervisors and labors.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, Cloudburst etc)?	**Yes**	The area under study falls in earthquake Zone-IV, according to the Indian Seismic Zoning Map. The project site is in plain area, hence there is no chance for land slide.

9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
9.1	Lead to development of supporting. facilities, ancillary development or Development stimulated by the project which could have impact on the environment e.g.: • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • housing development • extractive industries • supply industries • other	**No**	Project is located in industrial area having the required infrastructure facilities. Local people will be employed and no housing is required.
9.2	Lead to after-use of the site, which could have an impact on the environment	**Yes**	Negligible impact is envisaged on air, noise and aesthetic parameters due to the proposed project.
9.3	Set a precedent for later developments	**Yes**	This project will have positive effect on the living standards of local people in terms of employment, infrastructure. Proper and planned development for the management of the Bio hazard waste.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	**No**	No environmental effects or the potential for cumulative impacts with other existing or planned activities in the

			locality as in the vicinity of plant site.

(III) Environmental Sensitivity

S. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	No	None with the project site.
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Yes	Gola River 11 Km in West Direction; Sukhi/Baingul River 2 Km in West Direction; Kajlas River 0.85 Km in East Direction Saryu/Deoha River 7.5 Km East Direction.
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	Yes	None with the project site.
4	Inland, coastal, marine or underground waters	Yes	No Inland, coastal, marine or underground waterbody is present in the site.
5	State, National boundaries	No	None

6	Routes or facilities used by the public for Access to recreation or other tourist, pilgrim areas	Yes	NH-9 is 13 km in South direction. Sidcul road is around 0.8 Km in East direction. Pant Nagar Railway Station is located at approx. 20 km in the West direction. Pant Nagar Airport, which is around 20 Km in West direction.
7	Defense installations	No	None with the project site.
8	Densely populated or built-up area	Yes	Project site is located within the Sitarganj. Sitarganj city is at a distance of 13 km in the South direction.
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	Sitarganj city is 12.5 Km in South Direction, Tegor Nagar is 3.96 Kms, Nirmal Nagar - 4.77 Km Sisona - 5.57 Km
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Yes	Kajlas river is 0.85 kms in the East direction from the project site
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards	No	Not Applicable

	are exceeded)		
12	Areas susceptible to natural hazard which Could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	Yes	The proposed project site falls in seismic zone IV according to seismic zone map of India.

NATIONAL BIOMEDICAL WASTE SOLUTIONS

ADD. W. No. 6, Kichha Road, Near SDM Niwas, Rudarpur, Uttrakhand-263153

Form- I Undertaking

"I hereby give an undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost.

Date: 02/11/2021

Place: Rudrapur

Signature of the applicant

Sushil

(Project proponent/ Authorized Signatory)

Name: - Sushil Gupta

Designation: - Director

Address: - Plot No. D-17, Eldeco SIDCUL Industrial Park, Sitarganj - 262405, Uttarakhand

Section 2: BRIEF SUMMARY

1. EXECUTIVE SUMMARY

A Common Biomedical Waste Treatment Facility (CBWTF) is proposed to be set up by National Biomedical Waste Solutions at Eldeco SIDCUL Industrial Park, Sitarganj - 262405, Uttrakhand, where biomedical waste generated from health establishments will be suitably treated to negate adverse effects to human health and environment.

The main objectives of the proposed project are to:

- Establish of a Common Biomedical Waste Treatment Facility including the Incinerator, Autoclave, Shredder and Effluent Treatment Plant.
- Ensure proper collection of segregated biomedical waste and its transportation, storage, treatment and disposal in accordance with Biomedical Waste Management Rules, 2016.
- Ensure that the waste is treated and disposed of in compliance with statutory and environmental norms. Develop concise waste management principles.
- Introduce a continuing waste management education programme for all staff of health care establishments to increase awareness about Occupational Health & Safety issues and waste minimization principles.
- Adopt policies and procedures to minimize environmental impacts of waste treatment and disposal.
- Reporting to regulatory authorities if needed about improper handling and management of biomedical wastes by health care establishments.
- Ensure safety of all workers at the CBWTF by organizing regular vaccination programmes and health check-ups at regular intervals.

Table 1 Project Details

Particular	**Details**
Location	Plot No. D-17, Eldeco SIDCUL Industrial Park, Sitarganj - 262405, Uttrakhand
Latitude	29°02'59.04''N
Longitude	79°40'32.24''E
Elevation	235 m

Plot No	D-17
Total Area	0.4125 Ha.
Topography	Plain area
Present Land use	Industrial Vacant Land
Nearest Highway	NH-9, 13 Km, South direction
Nearest Railway Station	Pant Nagar Railway Station 20 Km, West direction
Nearest major city	Sitarganj – 13 Kms
Nearest Airport	Pant Nagar Airport -20 Km, West direction
Historical/ Archeological Place	No
Nearest River/ Water Body	Kajlas River – 0.85 Kms, East direction
Any RF/PF/ wild life sanctuary	No wild life sanctuary, protected forest, are found within 1000 meter from the boundary line which is demarked by red line in the sketch map.
Water requirement and Source	Fresh water required: 13 KLD Recycled Water- 5 KLD Total water Required– 10 KLD Source- Ground water
Power Requirement and Source	Total Electricity load – 52 KW Source- Uttrakhand State Electricity Distribution Corporation Ltd DG Set for stand by- 65 KVA Fuel - HSD
Manpower requirement	Construction Phase – 45 Operation Phase - 40
Hazardous waste management	Send to the authorized recyclers
Waste water treatment and disposal	5 KLD of ETP is proposed and plant will work on Zero liquid discharge concept.

Project Cost	302 Lakhs

SECTION 3: PRE-FEASIBILITY REPORT

Pre-Feasibility Report

1. EXECUTIVE SUMMARY

A Common Biomedical Waste Treatment Facility (CBWTF) is proposed to be set up by National Biomedical Waste Solutions at Eldeco SIDCUL Industrial Park, Sitarganj - 262405, Uttrakhand, where biomedical waste generated from health establishments will be suitably treated to negate adverse effects to human health and environment.

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Plot No.	D-17
Total Area	0.4125 Ha. (4125 m^2)
Topography	Plain area
Present Land use	Industrial Vacant Land
Nearest Highway	NH-9, 13 Km, South direction
Nearest Railway Station	Pant Nagar Railway Station 20 Km, West direction
Nearest major city	Sitarganj – 13 Kms
Nearest Airport	Pant Nagar Airport -20 Km, West direction
Historical/ Archeological Place	No
Nearest River/ Water Body	Kajlas river – 0.85 Kms, East direction
Any RF/PF/ wild life sanctuary	No wild life sanctuary, protected forest, is found within 1000 meter from the boundary line which is demarked by red line in the sketch map.
Water requirement and Source	Total water required: 13 KLD Recycled Water- 5 KLD Total fresh Required– 10 KLD Source- Ground water
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Waste water treatment and disposal	5 KLD of ETP is proposed and plant will work on Zero liquid discharge concept.
Project Cost	302 Lakhs

2. INTRODUCTION OF THE PROJECT/ BACKGROUND INFORMATION:

National Biomedical Waste Solutions is interested in setting up common Biomedical Waste Treatment and Disposal Facility (CBWTF) in the state of Uttrakhand for the proper handling

and treatment of biomedical wastes from all health-care centers of Uddham Singh Nagar & nearby districts.

Biomedical Waste Management Rules 2016, stipulates that occupier of every organization generating biomedical waste (as defined in the Rules) must manage its biomedical waste as prescribed in the Rules so as not to cause any harm to human health and the environment. It may not be possible for individual health care establishments like small nursing homes, dispensaries, clinical laboratories and other small institutions or individual medical professionals to carry out treatment and disposal of biomedical waste generated as per the methods prescribed in the Rules on their own. Neither is it economical for even bigger hospitals to have their own treatment facilities. A CBWTF is an ideal and perhaps only solution to all such problems. Accordingly, BMW Rules, 2016 recommends that no healthcare establishment can set up its own treatment and disposal facility if there is another CBWTF in a radius of 75 km.

2.1 IDENTIFICATION OF THE PROJECT, PROJECT PROPONENT AND BRIEF DESCRIPTION

Introduction of Project

The Proposed project of setting up of common Biomedical Waste Treatment Facility (CBWTF) falls under Category 7(da) as per the EIA notification, 2006 and after the subsequent amendments made in 17th April 2015. Environmental clearance from MoEF & CC for the setting up of CBWTF has become mandatory, in terms of the directions issued by the National Green Tribunal on 28th November, 2013. In order to tackle the various problems that arise as a result of improper disposal of biomedical wastes, a Common Biomedical Waste Treatment Facility (CBWTF) is set up. According to the Central Pollution Control Board (CPCB), it is a set up where biomedical waste generated from a number of healthcare units, is imparted necessary treatment to reduce adverse effects to human health and environment. The treated waste may finally be sent for disposal in a landfill or for recycling purposes. It has been roughly estimated that about 1.5 to 2.0 kg/bed/day of solid waste is generated from health care institutions of which 10 to 15% is biomedical waste. The concept of CBWTF is also being widely accepted in India among the healthcare units, medical associations and entrepreneurs.

National Biomedical Waste Solutions is a new start-up company jointly promoted by Mrs. Kulwant Kaur & Mr. Sushil Gupta. The constitution of the company is Partnership and the primary objective will be Health Care Services especially Safe Handling, Collection, Transportation, Storage, Treatment, Recycle and Disposal of Biomedical and Plastic Waste. Both the partners have adequate knowledge of the field and are closely familiar with several Biomedical Waste Operators and the Process of CBWTSDF. They are well-versed in the characterisation, compliance, segregation, treatment & disposal of Biomedical Waste.

2.2 NEED FOR THE PROJECT AND ITS IMPORTANCE TO THE COUNTRY AND/OR REGION

Exposure to infectious BMW can result in disease or injury. It may contain infectious agents, toxic or hazardous chemicals or pharmaceuticals, radioactive wastes and waste sharps. The infectious wastes may contain any of the great variety of pathogenic microorganisms. The concern about disposal of infectious wastes generated by the hospitals is increasing rapidly due to the fear of the spread of viruses such as Covid 19, Acquired Immune Deficiency Syndrome (AIDS) and Hepatitis B. These wastes (bio-medical wastes generated from health care establishments) present a high risk of causing potential damage to the human health and the environment by way of spreading. Pathogens in infectious wastes may enter the human body through a number of routes like a puncture or cut in the skin, mucous membranes, by inhalation or ingestion. Sharps may not only cause cuts and punctures but also infect the wounds if they are contaminated with pathogens. Because of this dual risk – of injury and disease transmission – sharps are considered as a hazardous waste class.

To prevent the spread of such infectious wastes that finds its genesis in bio- medical wastes (from hospitals, clinics, laboratories, dispensaries etc.) a scientific approach is required. It is essential that professionally trained personnel should handle the wastes and that the wastes should be disposed scientifically.

2.3 IMPORTANCE OF BIO MEDICAL FACILITY IN SIDCUL, SITARGANJ

Sitarganj is an important city in Udham Singh Nagar in Uttrakhand. Now home to the Industrial Integrated Estate, Sitarganj is being developed by State Industrial Development Corporation of Uttrakhand (SIDCUL). The District has an area of 2542.00 km^2 and a population of 16, 48,902 (2011 census), with a population density of 649 persons per km^2, Udham Singh Nagar District ranks 3rd in terms of population in the Uttarakhand state. Sitarganj Tehsil has the highest number of inhabited villages (127). The District is located in the Terai region. This facility shall cater Nainital, Almora, Bageshwar, Pithoragarh, Champawat and of course the home District U. S. Nagar. Development and rise of population

due to promotion of Industrial activities lead to the rise of HCFs in this region contains Kashipur, Sitarganj and Rudrapur.

With advancement in infrastructure Sitarganj has established itself as a rapid growing city of India, thereby resulting in the population growth. Hospitals are the major generation of waste in cities like Sitarganj and there is always a need for the treatment facilities. At present there are more than 15 HCFs in Sitarganj urban area and nearby Districts having approximately 450 bed capacities, which is proposed to be increased 900 beds as per National Rural Health Mission. In the near future, this belt of Uttrakhand will have at least 10,000 beds due to rise in contagious diseases such as COVID-19, AIDS, Hepatitis B, Bird Flu, Swine Flu apart from other ailments.

Most of the Hospitals, Primary Health Care establishments, etc., do not have treatment facilities and they are mixing biomedical waste with general solid wastes. The problems faced by health care institutions in handling and management of Bio medical waste are; Space Constraint for constructing facility, Funds Constraint.

2.4 EMPLOYMENT GENERATION

Total 40 nos. of manpower is proposed to be required to run the facility smoothly. Total 45 people will also be required during construction phase. Preference will be given to local people during construction and operation. Required technical assistance and training shall be provided to the local so they can work properly.

S.No.	Details	Construction (Phase)	Operation (Phase)	Remarks
1	Management /Skilled	5	5	Permanent staff
2	Semi-Skilled	10	5	
3	Unskilled	30	30	On contract basis
	Total	**45**	**40**	

3. PROJECT DESCRIPTION

3.1 Type of Project Including Interlinked Projects, If Any

Type of Project: The Proposed Project is a Development of Common Bio Medical Waste Management Including treatment of BMW & Plastic waste Facility with in Industrial Area for Biomedical Waste Management & Recycling Facility at the outskirts of Sitarganj, District

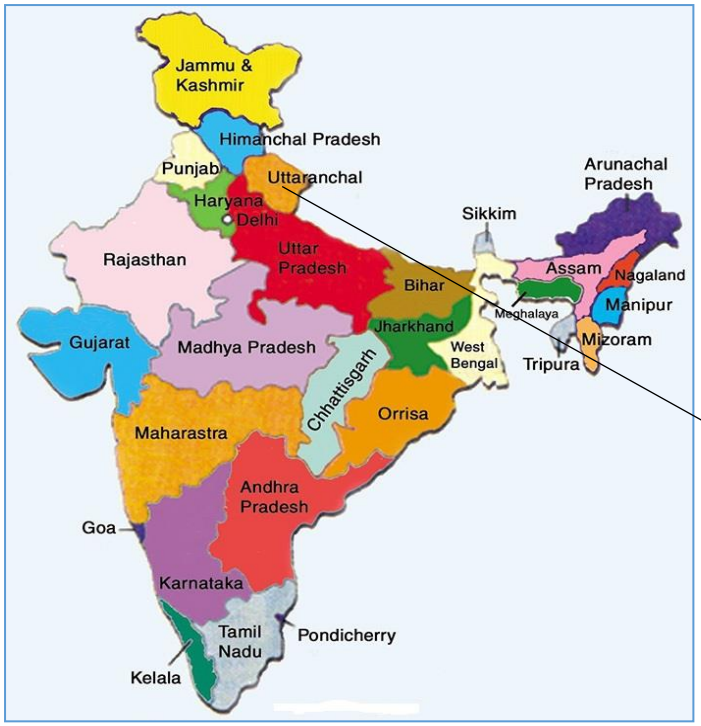
Udham Singh Nagar District, Uttrakhand in an ordered and safe manner. This is a completely independent project and not interlinked with other project.

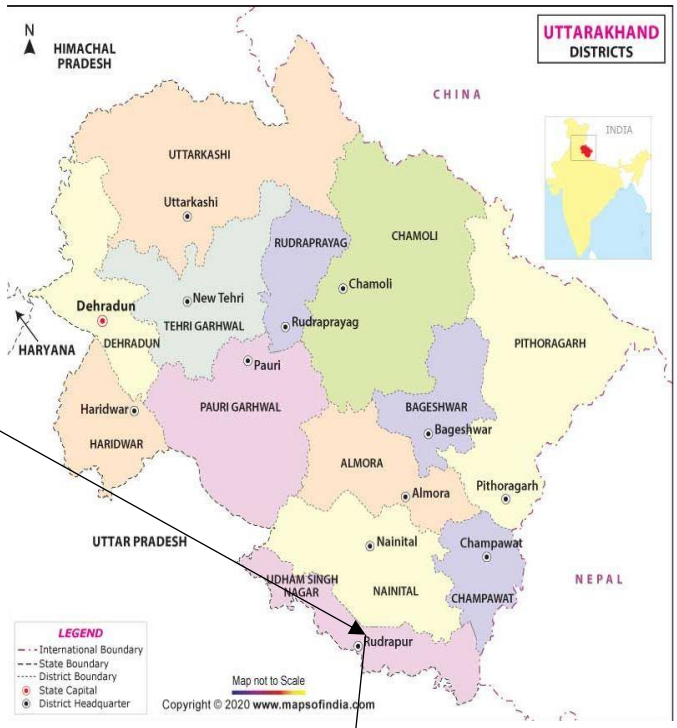
3.2 Location of the Project, Project Boundary and Project layout

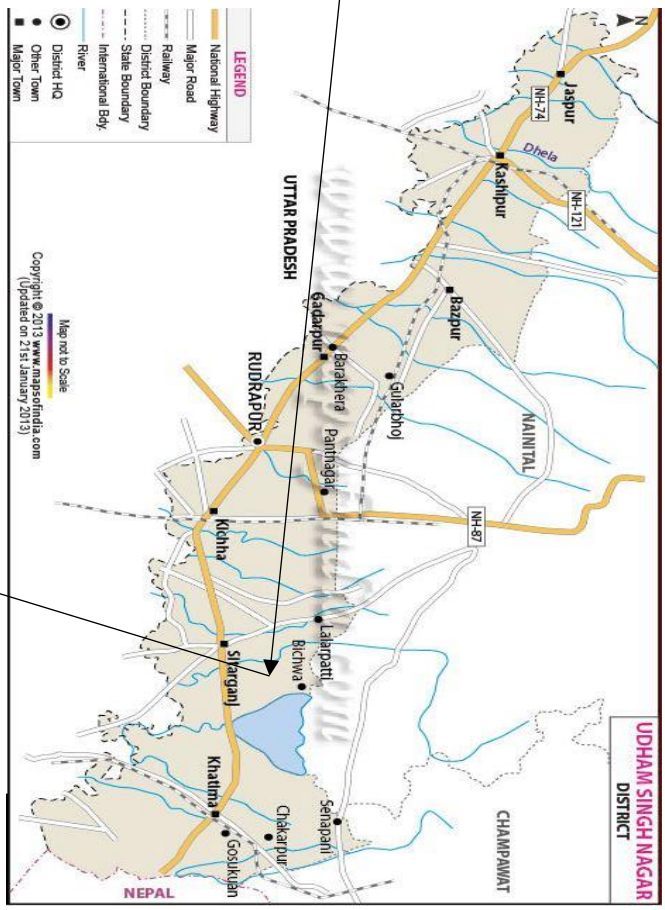
The proposed facility will be established in an area of 0.4125 Ha at Plot No. D-12 Eldeco SIDCUL Industrial Park near Sitarganj.

Point	Latitude	Longitude
A	29° 3'0.31"N	79°40'30.86"E
B	29° 2'59.38"N	79°40'33.81"E
C	29° 2'57.94"N	79°40'33.38"E
D	29° 2'58.96"N	79°40'30.26"E

"Proposed Common Biomedical Waste Treatment Facility at Plot No. D-17, Eldeco, SIDCUL Industrial Park, Sitarganj, Uttarakhand by National Biomedical Waste Solutions







Project Proponent:

National Biomedical Waste Solutions

By: Amaltas Enviro Industrial Consultant LLP.

3.3 Details of the Alternative Site Considered and the basis of selecting the Proposed Site, Particularly the environment consideration gone into should be highlighted.

No alternative sites has been proposed for the project of common biomedical waste treatment, storage and disposal facility as the proposed land is well suited for the site. It is a vacant industrial land and there is no village settlement or the population at the nearby area and all the resources for the establishment of the plant and the working are available at the nearby area.

3.4 Size and Magnitude of Operation

The project is proposed to be developed for the said CBMWF for the effective treatment of the Bio medical & plastic wastes from the Hospitals and Nursing homes from the surrounding area of the Sitarganj city. The proposed facility will facilitate with the following capacities.

Table 2 Size & Magnitude of Operation

S.No	Equipment	Capacity	Number
1	Incinerator (Kg/hr)	250 Kg/Hr	1
2	Shredder (200 Kg/Hr)	200 Kg/Hr	1
3	Autoclave (Liters)	1000	2
4	Effluent treatment Plant (KLD)	10	1

3.5 Process Description

As described hospital wastes once generated need to be segregated, collected, transported and safely treated and disposed of without causing damage to the human health and the environment. To redress this problem and provide the health care

establishments with a cost-effective solution to the waste disposal dilemma, the Company proposes for the development of Integrated Common Bio-Medical Waste Treatment Facilities at strictly in accordance with the BMW (Management & Handling) Rules, 2016 and subsequent amendments by Ministry of Environment and Forest& climate change (MOEF & CC).

The Company has identified the following as the major steps involved in making the system efficient:

- A comprehensive Waste Audit
- Training and Awareness – The Doctors, Nurses, Administrators and the ward boys.
- Waste Minimization
- Segregation at source

3.6 Waste Audit

The company shall undertake a waste audit to assess the waste quantities, current waste handling practices and subsequent treatment and disposal of the wastes. The audit shall include a survey of representative health care establishments and cover all aspects related to biomedical wastes including occupational health and safety

3.7 Training and Awareness

Our experience indicates that, the awareness levels of most health care establishments in respect to bio-medical waste management are very low. The health care workers are not completely aware of the impacts of the improper waste handling and management. Our first step towards our endeavour would be to create awareness among all the stakeholders involved in

the subject. Subsequent to this, the company shall provide thorough training to all the members on all aspects of bio-medical waste Management. This training shall include segregation of wastes into proper colour coded bags, identification of containers required for collecting the wastes, precautions to be taken in respect of handling wastes with special reference to sharps management. There shall be specific focus towards occupational safety of health care workers.

3.8 Waste Minimization

Waste minimization, though is a focus from the environmental angle, shall be recommended only at point sources where there is no scope of cross-infection.

3.9 Segregation of Wastes at Source

Segregation of wastes is the key to the success of bio-medical waste management. As indicated in chapter 2, though about 2 kg of hospital waste is generated per bed-day only about 0.2-0.25 kg/bed-day is the infectious portion of the waste. This is a clear indication that only about 10-15% of the total waste generated at health care establishment is infectious in nature. Thus, segregation of wastes at source would firstly reduce the wastes management problem to 15%. Further to this segregation of wastes (infectious) is integral in terms of further waste handling and management.

Bio-Medical wastes would have to be managed by destruction, dis-infection and ultimate disposal. With this in view, wastes would have to be segregated into incinerable wastes/ destructible wastes and dis-infectable wastes. The Company proposes to establish an incinerator and an autoclave, thus wastes would have to be segregated into incinerable and autoclavable wastes. Incinerable wastes include human anatomical wastes, animal carcasses, placenta, cotton, bandage, soiled materials and other similar wastes that have come in contact with the body fluids. Disinfect-able wastes include plastics, glass, metal, rubber and other similar materials. These would include syringes, needles, ampoules, blades and many more.

Focus during the training shall be made on segregation of wastes into colour coded bags ensuring compliance with the MoEF

& CC rules as well as subsequent handling and management of wastes. Segregation of wastes at source is very critical, as this would minimize further handling of the wastes until treated.

3.10 Collection and Transportation

The Company shall collect the waste from each health care establishment on a regular basis. Wastes shall be segregated as per the colour coding; properly packed and placed at a secure designated point by the health care establishment from there the Company shall collect the waste. Upon collection wastes shall be placed into closed containers enclosed in a containerized vehicle. Transportation of the wastes shall also be the responsibility of the Company.

The proposed vehicles shall be dedicated for the purpose and shall adopt the conditions specified in the BMW (Management & Handling) Rules.

All the vehicles used for the CBMWTF will be owned by the Company and the vehicle numbers will also be registered with the respective SPCB/PCC for the purpose of collection of bio-medical waste from the member health care facilities. The bio-medical waste collected in coloured containers shall be transported in a fully covered vehicle. This vehicle shall be dedicated for transportation of bio- medical waste only. Depending upon the volume of the wastes to be transported, the vehicle may be a three-wheeler, light motor vehicle or heavy-duty vehicle

The vehicle possesses the following:

(a) Vehicle shall be fitted with GPS to track the movement of the vehicle.

(b) Separate cabins shall be provided for driver/staff and the biomedical waste containers.

(c) The base of the waste cabin shall be leak proof to avoid pilferage of liquid during transportation.

(d) The waste cabin designed for storing waste containers in tiers and also provided with a lighting provision.

(e) The waste cabin shall be so designed that it is easy to wash and disinfect.

(f) The inner surface of the waste cabin shall be made of smooth surface to minimize water retention.

(g) The waste cabin shall have provisions for sufficient openings in the rear and/or sides so that waste containers can be easily loaded and unloaded

(h) The vehicle shall be labelled with the bio-medical waste symbol (as per the Schedule III of the Rules) and also display the name, address and telephone number of the CBWTF.

(i) The vehicle driver will always carry valid registration of the vehicle obtained from the concerned transport authority and also carry valid pollution under control certificate issued by the authorized certificate issuing agency.

Depending upon the area to be covered under the CBWTF, the route of transportation shall be worked out. The transportation routes of the vehicle shall be designed for optimum travel distance and to cover maximum number of healthcare units. As far as possible, the transportation shall be carried out during non-peak traffic hours. If the area to be covered is very large, a satellite station may be established to store the bio-medical waste collected from the adjoining areas. The wastes so stored at satellite station may then be transported to the CBWTF in a big vehicle. It shall be ensured that the total time taken from generation of biomedical waste to its treatment, which also includes collection and transportation time, shall not exceed 48 hours.

3.11 Disinfection and Destruction

Upon receipt at the facility, wastes containers shall be unloaded. Wastes based on their colour codes shall be separated

and properly treated and disposed off. Categories 1, 2, 3 and 6 (as per MoEF & CC) shall be directly loaded into the incinerator while categories 4 and 7 shall be loaded into the autoclave for dis-infection. Residue from these units shall be disposed into a landfill. Detailed process description of the treatment technologies is presented in the subsequent sections.

3.12 Disposal

Ash, residue from high temperature incineration and other material residues from the process shall be collected into containers and shall be disposed into a secure landfill.

Treatment Technologies

The following treatment facilities shall be provided in the CBMWTF:

1. ***Process Equipment's***

- Incinerator
- Autoclave
- Shredder
- Effluent treatment Plant with ZLD Concept

2. ***Machinery / Utility Equipment's:***

- DG Set
- ETP
- Dust Collector

3. ***Safety Equipment:***

- Fire Extinguisher
- Fire Alarm System
- Safety Showers
- Emergency PPE Cupboards
- Wind Sack

Incinerator

Following design criteria may be adopted for better performance:

A double chamber incinerator will be chosen with a capacity of 250 kg/hr, run on diesel and Mono block automatic burners. The temperature for primary chamber will be 800º±50 ºC and secondary chamber will be 1050º±50 ºC. The incinerator will be facilitated with loading door, emergency vent and large opening to enable waste charge and to install air pollution control devices. The Incinerator shell will be made of mild steel plate of 5 mm thick and painted externally with heat resistant aluminum paint suitable to withstand high temperatures. The incinerator will be designed on "controlled-air" incineration principle, as particulate matter emission is low in such incinerator. The waste will be fed into the incinerator in small batches at fixed intervals of time using auto feeding mechanism.

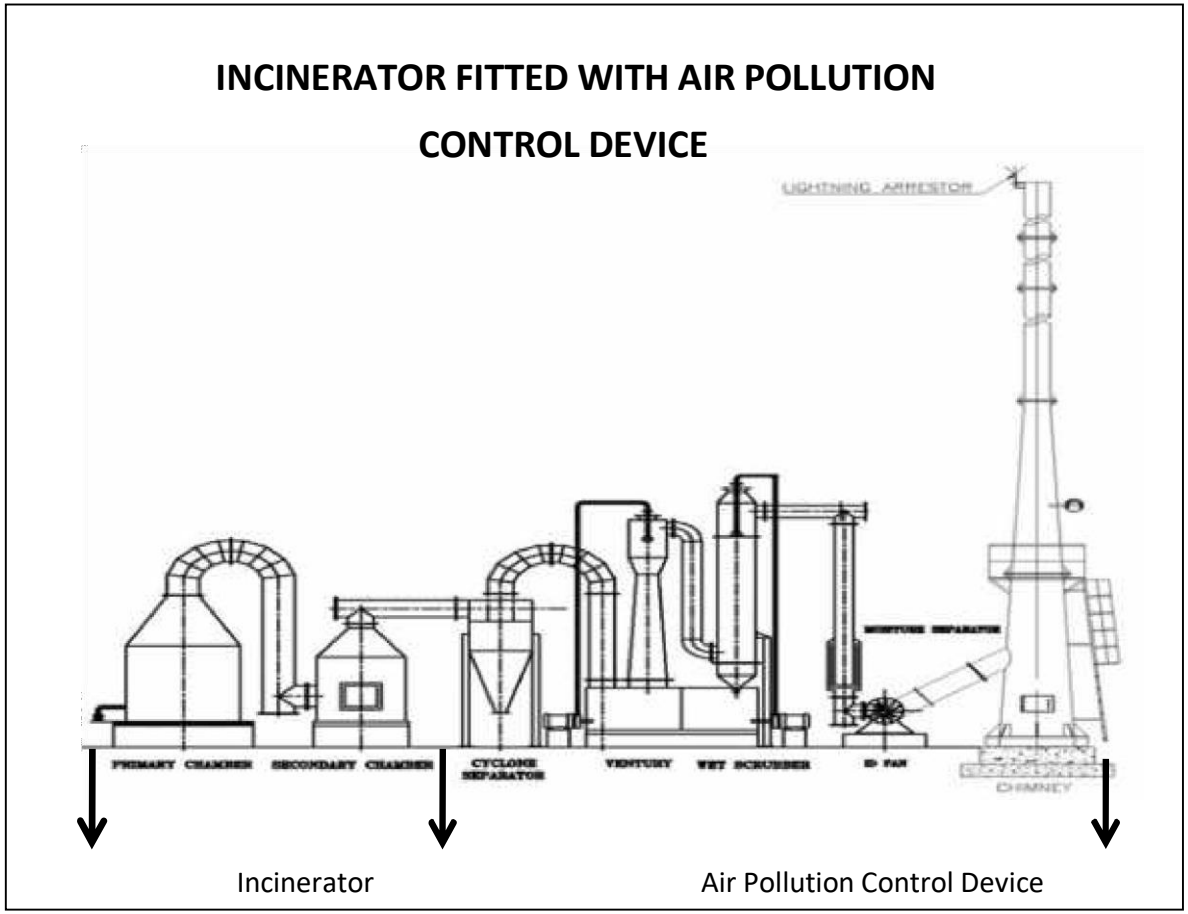
Primary chamber and Secondary chamber

Primary chamber is the main combustion chamber provided with stainless steel anchors to hold the refractories. Refractory lining of the hot duct shall be done with refractory castable (minimum 45 mm thick) & insulating castable. The size of the secondary chamber is designed to facilitate a minimum of one second of residence time to gas flow. The refractory lining of the chamber is strong enough to sustain minimum temperature of 1000° C in the primary chamber and 1200° C in the secondary chamber. The refractory & insulation bricks have minimum 115

mm thickness each & conform to IS: 8-1983 & IS: 2042- 1972 respectively. Two burners are provided separately for each chamber and are run by diesel.

The heat input capacity of each burner is 800±50°C and 1050±50°C respectively within maximum of 60 minutes prior to waste charging.

Alternatively it is proposed to use the Hazardous Waste Incinerator for the destruction of the biomedical waste as it is more efficient and effective incineration system with rotary kiln and dual combustion system with air pollution control system including: spray drier for rapid quenching, multi cyclones, dry lime and activated carbon treatment, bag filters and wet alkali scrubber followed by ID fan with 30 m stack



Air Pollution Control Device

The gases after being burnt at 1050o C shall be run into a venturi scrubber followed by a flooded scrubber with water quenching arrangement. The scrubber shall be an alkaline scrubber to neutralize the gases and ensure trapping of any pollutants escaping into the environment. The purpose of water quenching is to reduce the temperature of the gases which are at high temperature. The clean gases are let out into the

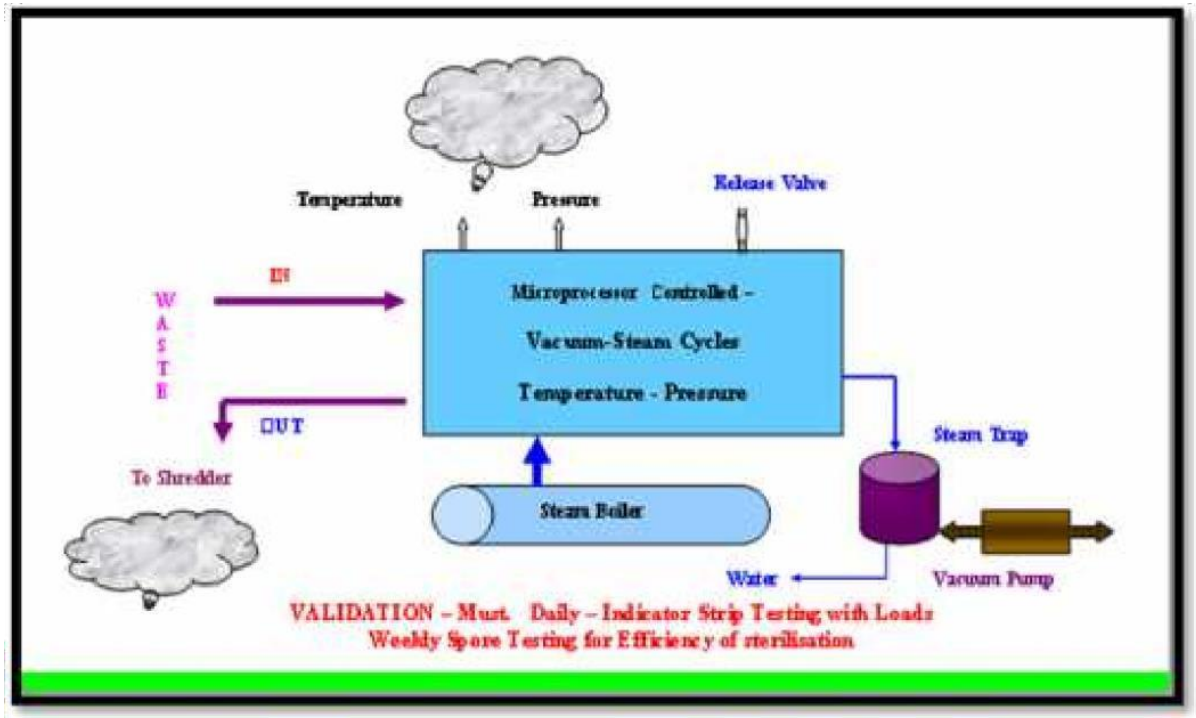
environment. The scrubbed water shall be collected into a sump, where the water is neutralized, and then sent into a cooling tower from where the water is re-circulated into the scrubber after cleaning them of their particulates by way of pressure sand filter and activated carbon filter. The system is thus a zero- discharge system in terms of water discharges and is pollution free.

Autoclave

Autoclave is a low-heat thermal process where steam is brought into direct contact with waste and for sufficient duration to disinfect the wastes. The operating temperature is 121ºC and 15 psi of working pressure. The segregated recyclable plastic waste is washed and subjected to autoclave for 45mins or 149 ºC at 52 psi for 30min. Display and recording devices for critical parameters such as time, temperature, pressure, date and batch number etc. are provided.

Table 3 Key features of Autoclave

Type:	Vacuum Type, automatic with documentation.
Capacity:	2 MT per day
Temperature:	135° C
Pressure:	35 psi
Time:	45 min
Automation:	PLC with MMI (Man-Machine interface)



Other Infrastructure

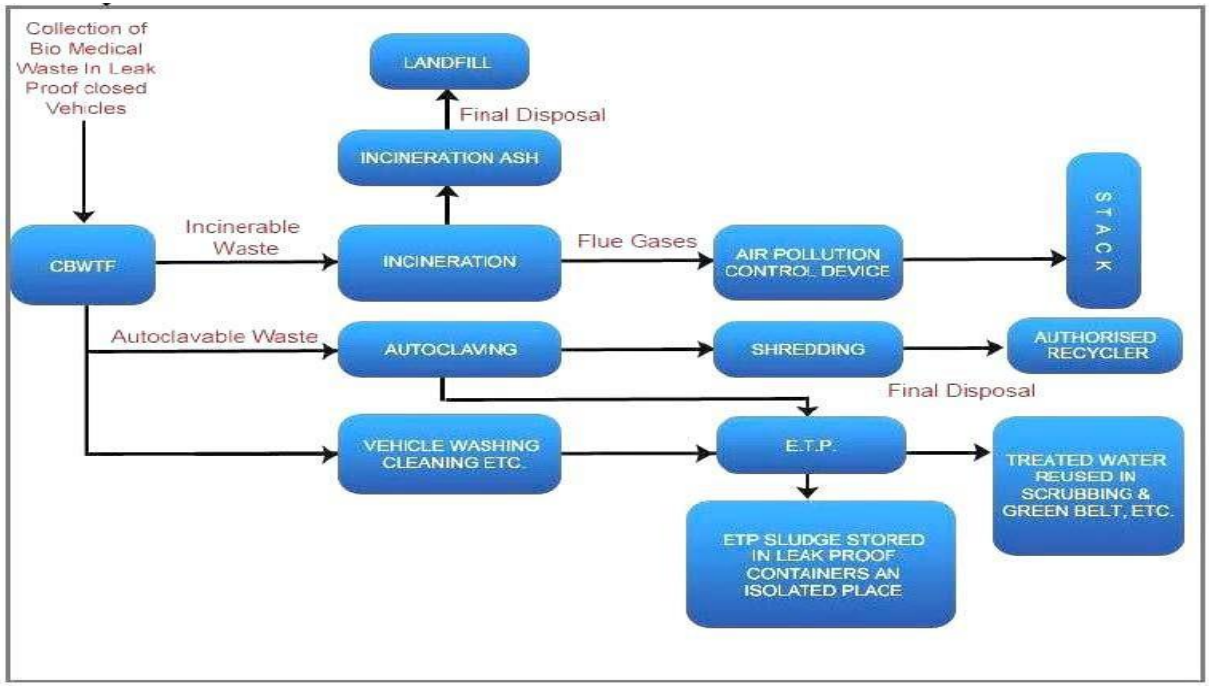
The other infrastructure proposed in Bio-medical Waste Treatment Section is as follows

- ✓ Effluent Treatment Plant: An ETP to treat the scrubbing water, floor washings and other wastewater from the plant and send the same for circulation into the scrubber. The system shall be cooling, pressure sand filter and activated carbon filter assembly followed by neutralization before recirculation into the scrubber (incinerator).
- ✓ Shredder: A mechanical shredder to make the waste unrecognizable as medical waste shall be installed with a capacity to handle about 3.3 T of medical wastes per day.
- ✓ Landfill: The residue will be sent to secured landfill site.
- ✓ Online Monitoring Systems - Air: Real-time monitoring station will be installed and the stack emission readings will be continuously transferred to CPCB and UPPCB.

- ✓ Online Monitoring Systems - Water: Real-time monitoring station for ZLD on ETP will be installed and the live PTZ Camera stream and Flow Meter readings will be continuously transferred to CPCB and UPPCB.

Shredder

Shredding is a process by which waste is de shaped or cut into smaller pieces and makes wastes unrecognizable and prevents reuse of bio-medical waste. The shredder is of robust design with minimum maintenance requirement and covered to avoid spillage and dust generation. The hopper and cutting chamber of the shredder accommodates waste bag full of bio-medical waste. The shredder blade is highly resistant and shreds waste sharps, syringes, scalpels, glass vials, blades, plastics, catheters, etc. after autoclave. In case of shock-loading (non-shreddable material in the hopper), there mechanism to automatically stop the shredder to avoid any emergency/accident is provided.



Effluent Treatment Plant

Following shall be the flow path for the wastewaters generated:

- ✓ Scrubbing Effluent – Collected in Hot Water Sump
- ✓ Autoclave Effluent – Collected into the Hot Water Sump.
- ✓ Floor and Reactor Washings – Collected into the Hot Water Sump

The entire wastewater collected at the Hot water Sump shall flow through the ETP and shall be re-circulated into the scrubber.

Standards of Shredder

- ❖ The shredder for bio-medical waste is of robust design with minimum maintenance requirement.
- ❖ The shredder is properly designed and covered to avoid spillage and dust generation. It is designed such that it has minimum manual handling.
- ❖ The hopper and cutting chamber of the shredder is designed to accommodate the waste bag full of bio-medical waste.
- ❖ The shredder blade are highly resistant and able to shred waste sharps, syringes, scalpels, glass vials, blades, plastics, catheters, broken ampoules, intravenous sets/ bottles, blood bags, gloves, bandages etc.
- ❖ The shredder blade are of non-corrosive and hardened steel.
- ❖ The shredder is so designed and mounted so as not to generate high noise & vibration.
- ❖ If hopper lid or door of collection box is opened, the shredders stopautomatically for safety of operator.
- ❖ In case of shock-loading (non-shreddable material in the hopper), there is a mechanism to automatically stop the shredder to avoid any emergency/accident.
- ❖ In case of overload or jamming, the shredder has mechanism of reversemotion of shaft to avoid any emergency/accident.

- The motor is connected to the shredder shaft through a gearmechanism, to ensure low rpm and safety.
- The unit is suitably designed for operator safety, mechanical as well as electrical.
- The shredder has low rotational speed (maximum 50 rpm). This ensure better gripping and cutting of the bio-medical waste.
- The discharge height (from discharge point to ground level) is sufficient (minimum 3 feet) to accommodate the containers for collection of shredded material. This avoids spillage of shredded material
- As per capacity shredder is designed (i) 3 KW for 50 Kg/hr, (ii) 5 KW for 100 kg/hr& (iii) 7.5 KW for 200 Kg/hr and three phase induction motor. This ensure efficient cutting of the bio-medical wastes as prescribed in the Bio-medical Waste (Management & Handling) Rules.

4. *RESOURCE OPTIMIZATION*

a) Land details

Total land area for the proposed project is 0.4125 Ha.

b) Water Requirement

The total water requirement for the proposed facility is 13 KLD and this Water requirement for the project will be met through Ground Water as no water supply arrangement available near the site. The wastewater generation would be around 4 KLD, the wastewater generated will be treated in ETP. The details of the water requirement are given in Table 4.

Table 4 Water Requirement

Sl. No	Utility	Water Required	Waste Water Generation	Remarks

1	Domestic	2.0	1.6	Sent to Septic tank / soakpit
2	Floor Washings	1.0	0.8	Sent to ETP
3	Work Shop/ Vehicle Maintenance shed	2.0	1.6	
4	Bio medical waste	3.0	-	
5	Green belt	5.0	-	
	Total	13.0	4.0	

c) Effluent Generation and Treatment

4 KLD of Trade Effluent Wastewater will be generated. It will be treated in ETP with Zero Liquid Discharge Concept. Treated water will be used for utilities.

d) Domestic Wastewater Generation & Treatment

1.6 KLD of domestic effluent will be generated from the proposed project which will disposed in Septic Tank followed By Soak pit.

e) Power Requirement

The Power required in the proposed CBWTF unit will be 52 KW and will be sourced from Uttrakhand Power Corporation Limited and the

DG set of capacity 65 KVA is proposed in case of power supply failure.

f) Manpower Required

The Total employment generated due to the proposed project will be 40 persons including support staff, skilled and unskilled workers.

g) Hazardous Waste Management

The Hazardous waste like ETP Sludge, Waste Diesel Oil, used filter cloth etc. will be sent to TSDF Site. Hazardous waste materials will be properly disposed as per the Hazardous and Other wastes (Management, Handling and Trans-boundary Movement) Rules 2016. Agreement will be made with TSDF.

Table 5 Bio-Medical Waste Collection, Treatment & Disposal Scheme

CATEGORY	TYPE OF WASTE	TYPE OF BAG OR CONTAINER TO BE USED	TREATMENT AND DISPOSAL OPTION
YELLOW	(a) Human Anatomical Waste: Human tissues, organs, body parts and fetus below the viability period (as per the Medical Termination of Pregnancy Act 1971, amended from time to time)	Yellow colored non chlorinated plastic bags/Cans	➢ Incineration or Plasma Pyrolysis or deep burial*
	(b)Animal Anatomical Waste: Experimental animal carcasses, body parts, organs, tissues, including the waste generated from animals used in experiments or testing in veterinary hospitals or colleges or animal houses.		➢ Incineration or Plasma Pyrolysis or deep burial*

	c) Soiled Waste: Items contaminated with blood, body fluids like dressings, plaster casts, cotton swabs and bags containing residual or discarded blood and blood components.		➢ Incineration or Plasma Pyrolysis or deep burial* ➢ In absence of above facilities, autoclaving or microwaving/ hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery.
	(d) Chemical Waste: Chemicals used in production of biological and used or discarded disinfectants.		➢ Disposed of by incineration or Plasma Pyrolysis or Encapsulation in hazardous waste treatment, storage and disposal facility.
	(e) Expired or Discarded Medicines Pharmaceutical waste like antibiotics, cytotoxic drugs including all items contaminated with cytotoxic drugs along with glass or plastic ampoules, vials etc.		➢ Expired cytotoxic drugs and items contaminated with cytotoxic drugs to be returned to the manufacturer or supplier for incineration at temperature 1200° C or to common bio-medical waste treatment facility or hazardous waste treatment, storage and disposal facility for incineration at 1200^{0}C Or Encapsulation or Plasma Pyrolysis at1200^{0}C. ➢ All other discarded medicines shall be either sent 24 Yellow back to manufacturer or disposed by incineration.

	(f) Chemical Liquid Waste: Liquid waste generated due to use of chemicals in production of biological and used or discarded disinfectants, Silver X-ray film developing liquid, discarded Formalin, infected secretions, aspirated body fluids, liquid from laboratories and floor washings, cleaning, house- keeping and disinfecting activities etc.	Separate collection system leading to effluent treatment system	➢ After resource recovery, the chemical liquid waste shall be pre-treated before mixing with other waste water. The combined discharge shall conform to the discharge norms given in Schedule- III.
	(g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	Non-chlorinated yellow plastic bags or suitable packing material	➢ Non- chlorinated chemical disinfection followed by incineration or Plasma Pyrolysis or for energy recovery. ➢ In absence of above facilities, shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery or incineration or Plasma Pyrolysis.
	(h) Microbiology, Biotechnology and other clinical laboratory waste: Blood bags, Laboratory cultures, stocks or specimens of microorganisms, live or attenuated vaccines, human and animal cell cultures used in research, industrial laboratories, production of biological, residual toxins, dishes and devices used for cultures.	Autoclave safe plastic bags or containers	➢ Pre-treat to sterilize with non-chlorinated chemicals on-site as per National AIDS Control Organization or World Health Organization guidelines thereafter for Incineration.

RED	Contaminated Waste (Recyclable) (a) Wastes generated from disposable items such as tubing, bottles, intravenous tubes and sets, catheters, urine bags, syringes (without needles and fixed needle syringes) and vacationers with their needles cut) and gloves.	Red colored non- chlorinated plastic bags or containers	➢ Autoclaving or micro-waving/ hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent to registered or authorized recyclers or for energy recovery or plastics to diesel or fuel oil or for road making, whichever is possible. ➢ Plastic waste should not be sent to landfill sites.
WHITE	Waste sharps including Metals: Needles, syringes with fixed needles, needles from needle tip cutter or burner, scalpels, blades, or any other contaminated sharp object that may cause puncture and cuts. This includes both used, discarded and contaminated metal sharps	Puncture proof, Leak proof, tamper proof containers	➢ Autoclaving or Dry Heat Sterilization followed by shredding or mutilation or encapsulation in metal container or cement concrete; combination of shredding cum autoclaving; and sent for final disposal to iron foundries (having consent to operate from the State Pollution Control Boards or Pollution Control Committees) or sanitary landfill or designated concrete waste sharp pit.
BLUE	(a) Glassware: Broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic wastes.	Cardboard boxes with blue colored marking.	➢ Disinfection (by soaking the washed glass waste after cleaning with detergent and Sodium Hypochlorite treatment) or through autoclaving or microwaving or hydroclaving and then sent for recycling
BLACK	Plastic Bags	Discarded Medicine and Cytotoxic drugs, Incineration ash and chemical waste	➢ Disposal in secure Land fill

SITE ANALYSIS

Proposed project is located at Plot No. D-17, Eldeco SIDCUL Industrial Park, Sitarganj - 262405, Uttrakhand. Geographical features of the site and study area is given below in the **Table 6**.

Table 6 Site Details

Particular	**Details**
Location	Plot No. D-17, Eldeco SIDCUL Industrial Park, Sitarganj - 262405, Uttrakhand
Latitude	29°02’59.04”N
Longitude	79°40’32.24”E
Elevation	235 m
Plot No.	D-17
Total Area	0.4125 Ha. (4125 m^2)
Topography	Plain area
Present Land use	Industrial Vacant Land
Nearest Highway	NH-9, 13 Km, South direction
Nearest Railway Station	Pant Nagar Railway Station 20 Km, West direction
Nearest Village	Teora Village - .1.98 Km , SW
Nearest major city	Sitarganj – 13 Kms
Nearest Airport	Pant Nagar Airport -20 Km, West direction
Historical/ Archeological Place	No
Nearest River/ Water Body	Kajlas river – 0.85 Kms, East direction
Any RF/PF/ wild life sanctuary	No wild life sanctuary, protected forest, are found within 1000 meter from the boundary line which is demarked by red line in the sketch map.
Project Cost	302 Lakhs

PROPOSED INFRASTRUCTURE

National Biomedical Waste Solutions intends to install proposed infrastructure for smooth functioning of the proposed CBWTF plant

Process Equipment's

- Incinerator
- Autoclave
- Shredder
- Effluent treatment Plant with ZLD Concept

Machinery / Utility Equipment's:

- DG Set
- ETP
- Dust Collector

Safety Equipments:

- Fire Extinguisher
- Fire Alarm System
- Safety Showers
- Emergency PPE Cupboards
- Wind Sack.

PLANNING & MANAGEMENT

Waste Quantity and Characteristics

The primary purpose of waste quantification and characterization is to provide for an economically viable option for treatment/ disposal of the wastes. This concept, if managed properly reduces the quantity of infectious wastes to be handled under the Bio-Medical Waste management rules and also enables for an efficient sorting/ segregation and collection into color coded bags/ containers.

5. *Waste Classification and Characterization*

Wastes generated by the hospitals can primarily be classified into 3 groups:

Conventional Wastes/ Municipal Solid Wastes: General refuse similar to the domestic/municipal solid wastes and includes artificial linens, paper, food, cans, diapers, and plastic cups. This waste is non-infectious if it is not brought in contact with the infectious wastes and properly managed

Hazardous Wastes: Laboratory and Pharmaceutical Chemicals and containers including off specification and other chemicals, alcohols, disinfectants, antineoplastic agents, heavy metals (e.g. Mercury), etc. These wastes are hazardous in nature and if properly segregated and managed can be transported to hazardous waste management facility for treatment/storage/ disposal.

Infectious Wastes: Commonly referred to as Clinical and pathological Wastes and include: isolation wastes (refuse associated with infectious patients), cultures and stocks of infectious agents and associated biological, human blood and blood products, pathological wastes, contaminated sharps, amputated body parts, placenta and others. Typical wastes falling under each of the above groups ofinfectious wastes is presented as

Waste Group	Typical Wastes
Isolation Wastes	Wastes from patients with diseases considered communicable and requiring isolation
Cultures and Stocks of Infectious agents and associated biological	• Specimens from medical and pathological laboratories. • Cultures and stocks of infectious agents from clinical, research and industrial laboratories, disposable culture dishes, and devices used to transfer, inoculate and mix cultures • Wastes from the production of biological • Discarded live and attenuated vaccines
Human blood and Blood products	Waste blood, serum, plasma and blood products
Pathological Wastes	Tissue organs, body parts, placenta, blood and body fluids removed during surgery, autopsy and biopsy.
Contaminated Sharps	Contaminated hypodermic needles, syringes, scalpel blades, Pasteur pipettes and broken glass.

Table 7 Environmental Management Plan

Discipline	Environment Hazard	Mitigation measure and action plan (Treatment and disposal)	Administrative aspect		Monitoring parameter
			Implementation	Monitoring	
Common Biomedical waste treatment facility					
Biomedical waste Collection	There are many harmful agents in the Biomedical waste. The most important are Biological agents, which pollute water and food and cause alimentary infections like cholera, typhoid, dysentery, Infective hepatitis, polio, ascariasis and hook worm diseases etc. Collection, storage, segregation and treatment.	• The collection and transportation of bio-medical waste shall be carried out in a manner so as to avoid any possible hazard to human health and environment. • The wastes shall be segregated as per the provisions of the Bio-medical Waste (Management &Handling) Rules, 2016. • National Biomedical Waste Solutions will be collecting all type of segregated biomedical waste from different hospitals on a daily basis. The segregated waste will be brought to the common collection point within the hospital premises. It is then weighed and loaded into the trucks.	Site In charge/Site Engineer	QA/ Chemist	
Transportation of the collected bio- medical waste to the CBWTF.	-Do-	• The bio-medical waste collected in colored containers shall be transported to the CBWTF in a fully covered vehicle. Such vehicle shall be dedicated for transportation of biomedical waste only. • Special enclosed container type dedicated vehicles will be provided for collection and transportation of Bio Medical Waste from different hospitals,	Site In charge		

		Health care units situated in various locations The vehicle provided will be covered and secured against accidental opening of door, leakage/ spillage etc.			
Storage Untreated Waste	Do	• The proposed CBWTF will have storage area. The storage building is an enclosed Structure with sufficient ventilations. The biomedical waste can be directly stored in dumper containers with lids of suitable size. The storage area will beat the entry point of the CBWTF to unload and store all biomedical wastes that have been transported to the facility by vehicle.	Site In charge		
Storage Treated Waste	-Do-	• After autoclaving the wastes will be segregated and stored in the treated waste storage area. Plastic waste will stored after shredding. Plastics, metals, glass will be stored separately. Waste having recycle value will be sold to registered or authorized recyclers	Site In charge		
Secured Landfill	-Do-	• Industrial hazardous waste, we propose to utilize the landfill for Disposal of microbiological, biotechnology waste after autoclaving • Disposal of incineration ash • Disposal of Discarded medicines and cytotoxic drugs. • Disposal of solid chemical waste	Site In charge		

Human Anatomical Waste	-Do-	• Incineration	Site In charge		
Microbiology & Biotechnology waste and other Laboratory waste.	-Do-Waste sharps	Disinfection at source by chemical treatment or Autoclaving/ microwaving followed by mutilation/ shredding and after treatment final disposal in secured landfill or disposal of recyclable (plastics or glasses) wastes through registered or authorized recyclers	Site In charge		
Waste sharps	-Do-	• Disinfection by chemical treatment or destruction of needle and tip cutters autoclaving/ microwaving followed by mutilation/ shredding and after treatment final disposal in secured landfill or designated concrete waste sharp pits.	Site In charge		
Discarded Medicine and Cytotoxic Drug	-Do-	• Disposal in secured landfill or incineration	Site In charge		
Solid waste	-Do-	• Incineration	Site In charge		
Infectious Solid Waste	-Do-	• Disinfection by Autoclaving followed by shredding and after treatment final disposal in through registered or authorized recyclers	Site In charge		

Chemical Waste	-Do-	• Chemical treatment and discharge into drains meeting the norms of Biomedical Rules and solids disposed in secured landfill.	Site In charge		
Monitoring activity (Monitoring activity should continue even after closure of the facility))					
Water Quality	Ground water pollution Contamination of ground water	• Groundwater monitoring surrounding the site as per pre designed plan. The performance of the ETP must be closely monitored to clearly assess the effluent loads from the facility. This is especially so viewing the heavy rainfall in the region and also a need to assess the pattern of biomedical waste Disposal at the site. The possibly of modulator construction of the ETP to be considered so as to enable add-on of modules at a later date without disrupting operations.	Site In charge	QA/ Chemist	Water quality parameters
Air Quality	Air pollution (Fugitive, Dust and gaseous emissions)	Ambient Air Monitoring for various parameters at the site and surroundings. Water dumpers, sprinklers are deployed for water spraying. Tree plantation around the facility area and along the roads. Respirable dust samples are collected and analyzed periodically to ensure that the dust concentration limit is contained within the allowable limits	Site In charge	QA/Chemist	Air quality parameters

Soil Quality	Soil pollution	• Soil sampling from various locations and analysis	Site In charge	QA/ Chemist	Soil quality parameters
Noise	Noise pollution (Noise levels during construction phase will be high during operational phase due to instrumental work, increased truck movement, earth movers etc	• These negative impacts are short term Equipment to be kept and maintained in proper condition to keep the noise level within 75 dB (A). Workers will be provided with necessary protective equipment e.g. ear plug, earmuffs. Provision of green belt and plantation would further help in attenuating noise.	Site In charge	QA	Noise Level
Traffic	Traffic Impacts	National Bio-Medical Waste Solution is proposed at undeveloped rural area. As there is no much traffic on this road, no traffic overcrowding is expected and the impact will be negligible.	Site In charge	QA	Verification by observation
Socioeconomic	Socio-Economic Impacts	• The site selected for the treatment and disposal of biomedical wastes comes under Industrial area, so it is not having any visible adverse impact on human population as well as livestock as this site is excluded from any agriculture, forest, ecological sensitive, or animal grazing land. With the setting up of the biomedical waste treatment facility (CBWTF), there will be employment for about 45 persons (Construction phase) and about **40** persons	Site In charge	EHS officer	

		(Operational phase). In general, the project is to have positive impact by collecting; treating and disposing the biomedical waste in the scientific manner, this will reduce the future health hazard.			
Fire And Safety	Accidents/disasters related to fire and safety	• The proposed project of setting up of the Common Bio-medical Waste Treatment Facility (CBWTF) includes Incinerator, Autoclave, Shredder and Effluent Treatment Plant. It is proposed to utilize 1.20 Ha. of land for setting up of Biomedical Waste Treatment Facility. A well-laid firefighting system and fireextinguishers will be installed as per fire safety norms. Regular fire safety training will be conducted. Road/Fire Safety Week/National Safety Day/ Safety Week Celebrations are observed to improve the safety consciousness	Site In charge	EHS officer	Daily inspections By site Safety Officer and other statutory Officials

Health And Safety	Injury	• The operators, who are in contact with the infectious waste generated, are continuously at risk during their working hours. Therefore it is essential that adequate protection measures are provided against occupational health hazards. All workers will be given necessary training in handling the biomedical waste and treatment equipment before joining their job. Pre placement medical examination,	In charge	EHS officer	Examination records, training records.

PLANNING BRIEF

Planning Concept (Type of Industries, Facilities and Transportation Etc.) Town and Country Planning/Development Authority Classification

This is a proposed Common Biomedical Waste Treatment Facility (CBWTF) project. Transportation of the materials will be done in closed vehicles. As per New Guideline for Establishment of CBWTF; there should be one CBWTF to be developed covering 75 km radius area. As there is no other facility is present at the area; proposed project is requirement of the area.

Population Projection

Temporary influx of people will be there as the managerial and supervisory staff will generally be outsider. During Construction phase of the proposed CBWTF, the labourers and workers will be hired from nearby villages, thus providing them with a source of income in their local area. Total number of persons required in operational phase is about 40.

Proposed Infrastructure

Plant Area

The components of the CBWTF are:

- Administration Building
- Staff Rest Room and wash room
- Incineration shed, Waste Bucket Shed and Autoclave Shed Store Room,
- Temporary Ash Storage Room, Recycle Material Storage room, Treated glass Storage room and other storage area
- Effluent Treatment Plant
- Laboratory
- Vehicle Washing Platform
- Security Room, Meter Room, Panel Room, D.G Shed.
- Parking Area.
- Rainwater Harvesting Storage Tank
- Greenbelt area

Residential Area (Non Processing Area)

No residential area will be provided by National Biomedical Waste Solutions as all workers will be hired from local area only. Admin building will be developed as integral

part of the facility.

Green Belt Development

Green belt will be developed along plot boundary for width of 3 to 5 meters using varieties of plant species suitable to local environment. Nearly 33% of total area will be secured for Green Belt Development. Species type will be selected based on soil characteristics, and other related aspects to mitigate pollution effects due to noise, odor, dust etc. Major advantage of green belt is development of buffer zone and visual barrier for surrounding locality. The species selected is such way that it can counter the effects of various pollutants released as a part of fugitive emission as well as point sources, such as from incinerator stack. The green belt is proposed to be developed within the project area at the following places viz. along the periphery of project boundary, roads and around the facility site.

Drinking Water Management (Source & Supply of Water)

Drinking water will supply separately during construction and operation of facility.

Sewerage System

The domestic wastewater generated from the plant and utilities will be channelized and will be treated into proposed Septic tank followed by Soak Pit.

Solid & Hazardous Waste Management

Wastes will be generated in the form of ash and other residues. Ash will be generated approx. 50 Kg to 60 Kg per day and quantity of other residues generated will be approx. 10 Kg to 20 Kg per day.

Disposal: Ash residue from high temperature incineration and other material residues from the process shall be collected into containers / bags and shall be stored at temporary ash storage shed and shall be sent to CHWTSDF sufficient accumulation. All hazardous waste shall be strictly disposed as per Hazardous & Other Waste (Management & Trans-boundary movement) Rule, 2016.

6. REHABILITATION AND RESETTLEMENT PLAN(R & R PLAN)

The plant site is the vacant industrial lands so no Rehabilitation and resettlement is envisaged while the establishment of the proposed CBWTF of the National Biomedical Waste Solution.

PROJECT SCHEDULE AND COST ESTIMATES

Likely Date of Start of Construction and Likely Date of Completion (Time Schedule for the Project to be given)

The construction work will start after securing required permission from MoEF&CC /SEIAA/UPPCB. The project will be developed within 6 month.

Estimated Project Cost Along With Analysis In Terms Of Economic Viability of the Project (Kindly Verify)

Total cost of the Project is: Rs. 302 lakhs.

PROJECT BENEFITS

Proposed Common Biomedical Waste Treatment Facility (CBWTF) would minimize the risk involved in biomedical hazardous waste management by way of collection, transportation, storage, segregation, treatment facility and regular monitoring of such facility would be better and feasible as compared to captive facilities by individual health care units.

A Common Bio-medical Waste Treatment Facility (CBMWTF) is required for the treatment of the biomedical waste generated from a number of health care units to reduce adverse effects that this waste may pose. The treated waste may finally be sent for disposal in a landfill or for recycling purposes.

As per the Gazette Notification dated 16th March 2016 of Bio-Medical Waste (Management & Handling) Rules, 2016 as amended, under the Environment (Protection) Act 2016, every occupier of a health care establishment (HCE) shall either setup requisite bio-medical waste treatment facilities onsite or ensure requisite treatment of the bio-medical waste at an approved common treatment facility. No untreated bio-medical waste shall be kept stored beyond a period of 48 hours.

This project will generate direct and indirect employment opportunities for the local people. The proposed project of setting up of the Common Bio-medical Waste Treatment Facility (CBMWTF) includes Incinerator, Autoclave, Shredder and Effluent Treatment Plant which will create employment including skilled as well as semi-skilled staff directly or indirectly. During Construction phase, the labours and workers will be hired from nearby villages. Number of persons required during construction phase is 45 and 40 nos required during operation phase.

SECTION 4: ENCLOSURES

ENCLOSURES 1: DISCLOSURE OF CONSULTANT

Quality Council of India

National Accreditation Board for Education & Training

Certificate of Accreditation

Amaltas Enviro Industrial Consultants LLP

#2925 – Basement, Sector-46, Gurugram, Haryana-122003

Accredited as Category – 'A' organization under the QCI-NABET Scheme for Accreditation of EIA Consultant Organizations: Version 3 for preparing EIA/EMP reports in the following sectors:

Sl. No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1.	Mining of minerals- opencast mining only	1	1 (a) (i)	A
2.	Synthetic organic chemicals industry	21	5 (f)	A
3.	Bio-medical waste treatment facilities	32A	7 (da)	B
4.	Highways,	34	7 (f)	A
5.	Common Municipal Solid Waste Management Facility (CMSWMF)	37	7 (i)	B
6.	Building and construction projects	38	8 (a)	B
7.	Townships and Area development projects	39	8 (b)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RA AC Minutes dated July 26, 2019 and Supplementary Assessment minutes dated April 25, 2020 and August 28, 2020 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/19/1046 dated August 28, 2019. The accreditation needs to be renewed before the expiry date by Amaltas Enviro Industrial Consultants LLP, Gurugram following due process of assessment.

Sr. Director, NABET
Dated: June 14, 2021

Certificate No.
NABET/EIA/1821/RA 0141 (Rev.01)

Valid till
30.12.2021

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.

ENCLOSURES 2: ALLOTMENT LETTER

SIDCUL
सर्वेषां विकासाय

ELDECO SIDCUL
INDUSTRIAL PARK LTD.

Allotment Certificate & Agreement

ALLOTTEE/S: 1 National BIO Medical Waste Solutions

2 NA

3 NA

PLOT NO.: D-17

ELDECO SIDCUL
INDUSTRIAL PARK
SITARGANJ, UTTARANCHAL

YOUR GATEWAY TO INDUSTRIAL GROWTH

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

सत्यमेव जयते

ertificate No.	:	IN-DL15716882363595S
ertificate Issued Date	:	27-Jan-2020 01:12 PM
ccount Reference	:	IMPACC (IV)/ dl968503/ DELHI/ DL-DLH
nique Doc. Reference	:	SUBIN-DLDL96850339352238601976S
urchased by	:	Eldeco Sidcul Industrial Park Ltd
escription of Document	:	Article Others
roperty Description	:	D-17 Eldeco Sidcul Industrial Park Ltd, Sitarganj, U.S. Nagar, Uttarakhand
onsideration Price (Rs.)	:	0 (Zero)
rst Party	:	Eldeco Sidcul Industrial Park Ltd
econd Party	:	NATIONAL BIO MEDICAL WASTE SOLUTIONS
tamp Duty Paid By	:	Eldeco Sidcul Industrial Park Ltd
tamp Duty Amount(Rs.)	:	100 (One Hundred only)

.....Please write or type below this line.....

AGREEMENT

THIS FORMS PART OF THE AGREEMENT MADE ON THIS **28th JANUARY 2020 ENTERED** INTO BETWEEN **M/S ELDECO SIDCUL INDUSTRIAL PARK LTD.** (FIRST PARTY or COMPANY) AND **M/S NATIONAL BIO MEDICAL WASTE SOLUTIONS** (SECOND PARTY/S or ALLOTEE/S) FOR **PLOT NO. D - 17 ELDECO SIDCUL INDUSTRIAL PARK LTD, SITARGANJ, UTTARAKHAND.**

For ELDECO SIDCUL INDUSTRIAL PARK LTD.

ALLOTTEE/S

Dated: 28/01/2020

To
1. National Bio Medical waste Solutions
2. NA
3. NA

Dear Sir/Madam

Please refer to your Application No. ..... dated .....for allotment of a Industrial Plot in Eldeco Sidcul Industrial Park (**ESIP**), Sitarganj, Uttarakhand with Eldeco SIDCUL Industrial Park Limited, New Delhi.

We have gone through requirements and other details filled in your Application Form and accordingly are now pleased to allot you a Industrial Plot, bearing No. D-17 admeasuring 4125...Sq. Mts (..... Sq.ft) in ESIP, Sitarganj, Uttarakhand, (herein **"Said Plot"**) on 'as is where is basis" as per details below, vide Allotment No. ESIP/12452 for setting up an industrial project of ESIPL.

This allotment is subject to the terms and conditions of the Agreement enclosed herewith which shall prevail over and override all other terms and conditions given in our brochures, advertisements, price lists and any other relevant document. This cancels all previous allotment certificates, if any, issued against this allotment. You are requested to quote the allotment number in all future communications with us.

INDUSTRIAL PLOT DETAILS

Plot no. 17 ; Block D ; Phase II
Area 4125 sq.mts.

BASIC PRICE: Rs. 61,87,500/-
(Rupees Sixty one lakh eighty seven thousand Five hundred only
This amount has been calculated at the rate of Rs. 1500/-
(Rupees One thousand five hundred only) per square meter.

PAYMENT PLANS

Booking amount: Rs. 500000/-
(Rupees Five Lakh only)
(paid vide Receipt no. MRSID-219 dated 28/01/2020)
(The Allotment Certificate & Agreement is subject to realization of the booking amount cheque /draft)

INSTALMENT PAYMENT PLAN – Plan A

* First installment due on:	30-01-2020	Rs. 500000/-
* Second installment due on:	30.02.2020	Rs. 17,29,167/-
* Third installment due on:	30.03.2020	Rs. 17,29,167/-
* - monthly / quarterly installments of Rs. - each beginning	30.04.2020	Rs. 17,29,167/-
	TOTAL:	Rs. 61,87,500/-

Company

Allottee(s)/s signature

OR

DOWN PAYMENT PLAN – Plan B

*First installment due on:	_____	Rs. _____
*Second installment due on:	_____	Rs. _____
* Third installment due on:	_____	Rs. _____
* Down payment discount	_____	Rs. _____
	TOTAL :	Rs. _____

NA

NA

* Strike out whichever not applicable

Note:

Extra Charges, which are over and above the Basic Price as mentioned in various clauses of the Agreement shall become payable within 15 days from the date of demand.

Possession of the Said Plot will be given after execution of the lease / sub-lease deed of the same in your favour and subject to receipt of the payments as follows:

Under the Installment Payment Plan: After _____ months of months of completion of the period of the installments plan and receipt of the entire Basic Price, Extra Charges, Registration Charges and any other charges as may be intimated by us .

Under the Down Payment Plan: After _____ months of receipt of the entire Basic Price and after receipt of Extra Charges, Registration Charges and any other charges as may be intimated by us.

Marketing: _____ Accounts: _____

For Eldeco SIDCUL Industrial Park Limited

Authorized Signatory

Place: New Delhi

Date: 28/01/2020

Eldeco Sidcul Industrial Park Ltd. PAN No. : AABCE6152D

Allottee/s signature

TERMS AND CONDITIONS

THIS AGREEMENT is made on this 28th day of January 2020 between

Eldeco Sidcul Industrial Park Limited, a company incorporated under the Indian Companies Act. 1956, having its Registered Office at Eldeco Sidcul Industrial Park . Ltd. Site Office, Jail Camp, Sitarganj, U.S. Nagar, , Uttrakhand-262405 and Corporate and communication Address at 201-212, 2nd Floor, Splendor Forum, District Centre Jasola, New Delhi – 110 025 (hereafter referred to as the **"Company" or "ESIPL"**) which expression shall mean and include its assigns and successors, unless the subject and context requires otherwise) of the One Part.

AND

1. Mr./ Ms. .....
S/ d/ w of .....
R/o .....
.....

2*. Mr./ Ms. .....
S/ d/ w of .....
R/o .....
.....

3*. Mr./ Ms. .....
S/ d/ w of .....
R/o .....
.....

NA

* (to be filled in case of Joint Allottee(s)s)

OR

4. M/s.. National Bio Medical Waste Salutions
Registered office Ward No.-6, Kitcha Road, Near-
S.D.M. Niwas, Rudrapur, Dist. U.S. Nagar
Uttarakhand, "Authorised signatory – Kulwant Kaur"

(hereinafter referred to as the Allottee/s which expression shall include his /her/ their respective legal heirs, representatives, successors, executors transferees and permitted assignees) of the Other Part.

WHEREAS:

A. The State Infrastructure & Industrial Development Corporation of Uttarakhand Limited ("**SIDCUL**") a nodal agency of Uttarakhand ,entrusted for industrial development has been conveyed rights , title & interests by Government of Uttarakhand for development of Integrated Industrial Park on land admeasuring about 1096 acres approx (herein "**Project**") situated near Village Chorgalia, Sitarganj , District Uddham Singh Nagar, Uttarakhand either on its own or through collaboration with other private parties.

B. By virtue of aforesaid rights the SIDCUL decided to develop the Industrial Park on Build, Own & Operate (BOO) basis & accordingly granted a ninety (90) year

concession (**herein "Concession Period"**) to the ESIPL under separate Concession Agreement dated 23.03.2006 read with Novation Agreement dated 14.11.2006 (collectively referred to as "Said Concession Agreement") with the exclusive mandate to design, build , finance , operate , maintain & develop the Project.

C. Subsequently, a Lease Deed dated 15.09.08.(" herein **"Lease Deed "**) was executed between the SIDCUL & ESIPL: granting leasehold rights on the Said Land to the Sub Lessor for a period of 90 years commencing from 15.09.08 with an authority to convey, sublease, sublet or grant license on Said land or part of it to third parties as may be identified by the Sub-Lessor for the purpose of setting up the Industrial Park as above said .

D. The Allottee/s has / have been provided by Company all the relevant information, documents, licenses, plans, lay-out, site map and such other credentials with respect to the right, interest, competency of the Company and the basic infrastructure facilities to be provided in the Project. The Allottee/s has / have confirmed that he/she/they have examined the said documents, plans, site map etc., and are fully satisfied in all respects with regard to the rights, title and interest of the Company in the Project and have understood all limitations and obligations of the Company in relation thereto.

E. The Allottee/s has / have confirmed to the Company that he/she/they/it Is / are entering into this Agreement with full knowledge of all the laws, rules, regulations, notifications, etc., applicable to the Project and in particular, of the terms and conditions of allotment of Said Plot in the Project by the Company, and that he/she/they/it has clearly understood his/her/their rights, duties, responsibilities, obligations under each and all of the clauses of this Agreement. The Allottee/s has / have relied solely on his/her/their own judgment while deciding to execute this Agreement.

F. The Company, relying on the confirmations, representations and assurances of the Allottee/s to faithfully abide by all the terms and conditions and stipulations contained in this Agreement, has / have accepted, in good faith, its application to allot Said Plot for setting up Industry in the Project on the terms and conditions appearing hereinafter.

NOW THIS AGREEMENT WITNESSETH AS UNDER:

A. ALLOTMENT AND PAYMENTS

1. Only after Allottee signs and executes the Allotment Certificate, this Agreement to abide by the terms and conditions laid down herein, the allotment shall become final and binding upon the Company. If however, applicant fail to execute and return one copy of this Allotment Certificate and this Agreement within thirty (30) days from the date of its dispatch by the Company, then the Allotment Certificate and this Agreement shall be treated as cancelled only at the sole discretion of the Company and the earnest money paid by Allottee shall stand forfeited by the Allottee in favour of the Company. Further this allotment shall be automatically cancelled if the booking amount cheque is not realized by the Company.

2. The timely payment of installments as indicated in the payment plan is the essence of this Agreement. If any installment is not paid by the Allottee, the Company will charge 24% interest p.a. on the delayed payment for the period of delay. However, if the same remains in arrear for more than 30 days, the allotment will automatically stand cancelled without any prior intimation to the Allottee and the Allottee will have no lien or interest on the Said Plot. In such a case, the amount deposited upto 20% of the Basic Price of the Said Plot (hereinafter referred to as **"Earnest Money"**), will stand forfeited by Allottee in favor of the Company and the balance amount paid, if any, will be refunded without any interest, subject to that the Said Plot is subsequently allotted to any person (s) and the basic price is received However, in exceptional and genuine circumstances the Company may, at its sole discretion, condone the delay in payment exceeding 30 days, by charging interest @ 24% per annum for the delayed period, and restore the allotment in case it has not been allotted to some one else, and where such allotment to someone else has been made, an alternate Plot, if available, may be offered in lieu of the same. It is clarified that in default case, if part payment is received from Allottee/s, such payment will be first adjusted against the interest till date and then subsequently against the earliest payment due. If after such adjustment there still remain some defaults of more than 3 months, it will be fit case for cancellation of allotment.

3. The price of the Said Plot as stated in Application Form is the cost of the developed land with basic infrastructure development comprising road, power distribution, sewerage and drainage of capacity as deemed appropriate by Company. Anything over and above this basic development will be charged extra which Allottee agrees to pay proportionately without demur or protest. The mentioned basic development services will be provided to the Allottee at one designated point at the boundary of the Said Plot by the Company.

4. For preferentially located Plots, Preferential Location Charges (PLC)as applicable, will be payable by the Allottee as demanded by the Company. However, Allottee specifically agreed that if due to any change in the layout, the Said Plot ceases to be in preferential location, the Company shall be liable to refund only the amount of preferential location charges paid by the Allottee without any interest, damages and/or compensation and such refund shall be adjusted at the time of FDN. If due to any change in the layout, the Said Plot becomes preferentially located, then the Allottee shall be liable to pay as demanded by the Company additional PLC as applicable therein. Preferential location is defined as facing or abutting any green area or park, or any road wider than 12 meters.

5. In case the applicant, at any time, desires for cancellation of the allotment, it may be agreed to by the Company at its sole discretion, and in the event the Company agrees to the request of the Allottee, the Earnest Money will be forfeited in favor of the Company and the balance, if any, will be refunded without any interest, subject to that the Said Plot is subsequently allotted to any person (s) and the basic price is received.

6. In case the Allottee wants to avail of a loan facility from financial institutions to facilitate the purchase of the Said Plot applied for, the Company may , in its sole discretion, facilitate the process subject to the following:

i) The Company shall only be a facilitating agency and shall not be liable to either the Bank or the Allottee for any default in terms of Financing.

ii) The terms of the financing agency shall exclusively be binding and applicable upon the Allottee only.

iii) The responsibility of getting the loan sanctioned and disbursed as per the Company's payment schedule will rest exclusively on the Allottee. In the event of the loan not being sanctioned or the disbursement getting delayed, the payment to the Company, as per schedule, shall be ensured by the Allottee, failing which, the Allottee shall be governed by the provision contained in Clause 1 above.

iv) In case of default in repayment of dues of the financing agency by Allottee, the Allottee authorize the Company to cancel the allotment of Said Plot and repay the amount received till that date after deduction of Earnest Money directly to financing agency on receipt of such request from financing agency without any reference to Allottee.

B. CONSTRUCTION / COMPLETION

1. The Industrial Plot may be used only for purposes specified in the list notified by SIDCUL and / or Govt. of Uttaranchal and any change of user other than as specified in the Allotment Certificate shall be made only with the prior written consent of the Company. in case of any unauthorized use, the allotment of the Industrial Plot may be cancelled by the Company and in such a case, the Earnest Money will be forfeited and the balance, if any, will be refunded without any interest, subject to that the said plot is subsequently allotted to any person(s) and the basic price is received.

2. The use of land and construction of the building thereon shall be governed as per provisions of the zoning plan of the ESIP. The development control norms shall be governed as per rules and regulations of the General Development Control Regulations-2005, SIDUCL or any other relevant regulations notified by Govt. of Uttaranchal, and as amended from time to time. Zoning violations and deviations from the approved building plans at any stage shall cause a notice to rectify the breach. In the event of non-compliance, the Said Plot shall be liable to be resumed and the Allottees will be required to remove the plant and machinery within a period of two months of the resumption order at their own cost and expenses.

3. The Allottee shall obtain all requisite licenses, permits, permissions, approvals, sanctions etc as may be required to conduct its business from the Said Plot from the competent authorities.

4. The Allottee shall carry out the construction on the Said Plot in accordance with the plans and specifications approved by the appropriate authority. The Allottee shall comply with all laws, rules, regulations and building byelaws applicable to the construction on the Said Plot and comply with the time frame, if any, stipulated by the concerned authorities for completing the construction / development thereon. The Allottee shall apply and obtain the approvals at its own cost.

Company

Allottee/s signature

(b) The Allottee shall carry out construction on the Said Plot subject to:

(i) it shall not cause nuisance or annoyance to the other occupants in the adjoining areas and/or

(ii) it shall not obstruct or block the Common Areas & Facilities and/or

(iii) it shall not stock construction material on the road or areas adjoining the Said Plot.

(c) The Allottee / s shall be responsible and liable for all consequences, claims, penalty, actions etc. arising out of any breach or non-compliance of applicable laws and rules with regard to construction on Said Plot and also keep the Company harmless and indemnified from the consequences of non-compliance.

5. The Allottee agrees to carry out and complete civil works, internal development, boundary walls etc. of the Said Plot at its own cost an d expenses

6. The cost of the External Electrification of the Project, which includes proportionate cost of the Sub-Station, cost of the Transformer, main electrical panel cost of cables up to the distribution box shall be paid extra by the Allottee, if demanded by the Company.

7. The Allottee or any person claiming through them shall not be entitled to subdivide the Said Plot or amalgamate the same with any other adjoining Plot . In case of joint Allottee (s), each Allottee share in the Said Plot shall always remain undivided, unidentified and impartiable and none of them shall be entitled to claim partition of its share therein.

C. Maintenance

1. i) The Allottee shall pay the Maintenance Charges for maintenance and upkeep of the infrastructure. On completion of basic development or offer of possession or upon starting of Industrial Unit, whichever is earlier an interest free Maintenance Security (IFMS), as a contingency fund towards security for paying the maintenance bills and other charges such as preventive maintenance, shall be payable by the Allottee to the Company The Allottee/s understands that the IFMS lying company shall not earn any interest, either real or notional, and no such amount shall be creditable to his/her/their maintenance or any other account and further agrees and undertakes not to raise any claim, dispute etc in this regard.

ii) The amount to be deposited as IFMS will be intimated to the Allottee by the Company and can be revised from time to time. The amount mentioned in the price List or any literature / correspondence is indicative and can be modified at the time of offer of possession.

iii) The Allottee on completion of basic development or offer of possession or upon starting of Industrial Unit, whichever is earlier, agrees to enter into a maintenance agreement with the Company / nominee for the maintenance and upkeep of the infrastructure.

iv) The Allottee is liable to pay monthly / Quarterly/yearly maintenance charges as demanded by the Company / Maintenance agency, irrespective whether the Allottee is in occupation of the Said Plot or not, within a period of 7 days of demand, The Company / Maintenance agency reserves the right to

enhance the maintenance amount payable by way of further one time, annual or monthly charge. In case of delay in payment of maintenance charges within this period, interest @ 24% p.a. shall be charged for the period of delay.

v) In case of failure of the Allottee to pay the maintenance bill, other charges on or before the due date, the Company / Maintenance Agency shall have a right to deny the Allottee maintenance services and the Company will be entitled to effect disconnection of services to defaulting Allottees that may include disconnection of water / sewer / power connections and debarment from usage of any or all common facilities within the ESIP. In case, the default continues for a period of more than six months, the Company shall have the right to cancel the allotment/Sub-Lease Deed and the amount paid by the Allottee shall be forfeited in favour of the Company.

2. The Utilities (CETP, Logistics terminal etc.) developed in ESIP shall be used on the basis of user pay principle / tariff to be detailed later.

3. The IFMS shall become payable within 30 days from the date of offer of possession by the Company, whether or not the Allottee takes possession of his Said Plot. In case of delay in payment of IFMS within this period, interest @ 24% p.a. shall be charged for the period of delay.

4. The Allottee will neither himself do nor permit anything to be done which damages common area, adjoining Said Plot Plot or violates the rules and/or bye laws of the Local Authorities/department or Association of the Allottee. The Allottee shall be liable to rectify such damages to the satisfaction of the parties concern, failing which the Company may recover the expenditure in rectification from the IFMS and any other deposit lying with company or can recover from the Allottee through raising further demand/notice for expenditure incurred.

D. **TERMS OF SIDCUL**

1. The Project is being executed by the Company on leasehold land on the basis of Concession Agreement/Lease Deed signed by SIDCUL authorizing the Company to develop, market and transfer the lease hold right.

2. That on execution of the Sub-Lease/Lease Deed in favour of the Allottee , the Allottee, as Sub-Lessee, will abide all the terms and conditions as may be stipulated/imposed by SIDCUL and also payment of lease rent, transfer charges etc. by the Allottee

3. That all duty, taxes, charges, cess, fee etc present or future or retrospectively , which may be levied, charged or imposed on Project/Said Plot/building to be constructed thereon by any local administration, state government, central government, from the date of booking, including the Lease Rent payable to SIDCUL shall be borne and paid by the Allottee only, proportionately . In case, the Company pays a one time lease rent on behalf of the Allottee, the same will be borne proportionately by the Allottee.

4. All terms and conditions of the Said Concession Agreement and Lease Deed dated 15.09.08 between SIDCUL and the Company will be mutatis mutandis applicable to the Allottee.

Allottee/s signature

POSSESSION

1. The possession of the Said plot will be given after execution of Sub Lease Deed subject to (a) force majeure conditions and (b) payment of all the amounts due and payable by the Allottee/s upto the date of such possession including maintenance charges, security deposit & other charges etc. to the Company.

2. The Allottee/s has to take possession of the Said Plot within 30 days of Final Demand Notice (FDN)or written offer of possession from the Company (the Allottee/s/s shall be deemed to have taken possession on expiry of period mentioned in FDN or in written offer of possession), falling which the Said Plot shall be at the risk and cost of the Allottee/s, Further the Allottee/s shall be responsible to pay Holding Charges as may be demanded by company in addition to proportionate share of all the other charges like maintenance and power back-up, to the Company for the period of delay in taking over actual physical possession of the Said Plot after the expiry of the said period of 30days.

3. The Allottee specifically agrees and accepts that the Company may at its sole discretion decide not to grant possession of Said Plot or altogether decide to put at abeyance/ abandon the Project itself for which the Allottee shall not raise any dispute or claim any right, title or interest on the acceptance of the Application Money and receipt of initial token money being received by the Company or the acceptance and signing of this Allotment Certificate & Agreement and allotment therewith.

4. That the Company doesn't guarantee or assure regular profile or shape of Said Plot allotted as it is subject to change in Plot mix / master plan, site constraints and services provisioning. Any such request for withdrawal or cancellation of allotment on this account shall not be entertained or considered thereof, although the Company shall endeavor on best effort basis to provide for regular profile of Said Plot as far as possible.

5. The Final area of the Said Plot will be intimated after final physical measurement. In case of variation in actual area vis-à-vis booked area, the Company at its sole discretion will ensure necessary adjustments in the basic price, pro rata. If the final area of the Said Plot exceeds upto 20% then the Allottee/s shall be liable to pay difference in price at the booking rate and in case final area increases beyond 20% then the Allottees/s shall pay the difference in price at the current rate applicable at the time of such intimation of variation in area. On reduction in the area of the Said Plot the price shall be recalculated as per the allotment rate and the excess amount received shall be refundable without interest and without any rebates allowed immediately.
However, in case of variation exceeding 20% of allotted space, the Allottee/s writes to the Company within thirty(30) days of intimation by the Company, indicating his/her/their non-acceptance to such variation than the Allottee/s authorize the company to cancel the allotment without any objection/claim and the Company shall refund the entire money received from Allottee/s without any interest or compensation, subject to that Said Plot is subsequently allotted to any person/s and the basic price is received.

6. In case Said Plot is omitted due to change in the plan or the Company is unable to hand over the same to the Allottee for any reason, whatsoever, it shall offer

alternate Plot of the same type and in the event of non-acceptability by the Allottee or non-availability of alternate Plot, The Company shall be responsible to refund only the actual amount received from the Allottee till then without interest and shall not be liable to pay any damages or compensation etc to the Allottee.

7. The Company shall not be responsible for any delay in basic development works of ESIP as per planned timelines because of reasons not attributable to it. That the development of the Said Plot is subject to force-majeure clause, which includes delay for any reason beyond the control of the Company like non-availability of any building material due to market conditions, non receipt of Environmental Clearance, war or enemy action or natural calamities or any Act of God. In case of delay in possession as a result of any notice, order, rule , legislation , regulation or notification of the government / public / competent Authority or if competent authority (ies) refuses, delays, withholds, denies the grant of necessary approvals, permissions etc. or if such notifications, approvals, permissions etc. by the Competent authority (ies) become subject matter of any suit/ writ before a competent court or any other reason beyond the control of the Company & any of the aforesaid events, the Company shall be entitled to a reasonable extension of time.

F. TRANSFER/SUB- LEASE DEED

1. The Allottee/s/s undertakes to execute and get register the Transfer/Sub-Lease deed within 15 days from the date of intimation by the company in writing, failing, which the Allottee/s authorizes the Company to cancel the allotment and forfeit the Earnest Money, interest on delayed payment(s) etc. and refund the balance amount paid by the Allottee/s, without any interest upon realization of money from resale / re-allotment to any other party.

2. All charges, expenses, stamp duty, registration fee and incidental expenses etc. toward Transfer/ Sub-Lease Deed, at the rate as may be applicable on the date of execution and registration of the Transfer/ Sub-Lease Deed including documentation will be borne by the Allottee only. If the Company incurs any expenditure towards the registration of the Said Plot, the same will be reimbursed by the Allottee.

3. Prior to execution of Transfer/ Sub-Lease Deed, the Allottee/s shall not transfer its right, and interest in the Said Plot to any prospective purchaser/transferee without taking prior consent of the Company. The Company may, at its sole discretion and subject to applicable laws and notifications or any government directions as may be in force, permit the Allottee to get the name of his/her nominee substituted in his/her place subject to such terms and conditions and administrative charges/other charges as the company may impose and on payment of such transfer fee as may be prescribed by the Company. The Allottee shall be solely responsible and liable for all legal, monetary or any other consequences that may arise from such nominations. In the event of any imposition of executive instructions at any time after the date of this agreement to restrict nomination / transfer / assignment of the Said Plot by any authority, the Company will have to comply with the same and the Allottee has specifically noted the same. For the purposes of this clause any alteration and/or reconstitution and/or dissolution of the Allottee shall be construed as "Transfer" & shall be subject to such terms and conditions and administrative charges/other charges as the company may impose and on payment of such transfer fee as may be prescribed by the Company.

If the Allottee/s is either a firm or a Company it has also understood that the change in majority of proprietary interest in partnership firm/company will require prior approval of the company and shall be subject to applicable transfer charges.

4. For any subsequent transfer of the Said Plot by way of Transfer/ Sub-Lease Deed or otherwise by the Allottee, after execution and registration of Transfer/ Sub-Lease Deed in its/his/her favour, the Allottee/s/s shall obtain "No Objection Certificate" from the Company and shall be bound by its Transfer Policy.

G. INDEMINIFICATION

The Allottee shall keep indemnified the Company against all actions, proceedings or any losses, costs, charges, expenses, losses or damage or suffered by or caused to the Company, in respect of the Said Plot, by reason of any breach or non-observance, non-performance of the terms and conditions contained herein by the Allottee in respect of the Said Plot and/or due to non-compliance with any rules, regulations and/or non-payment of municipal taxes, charges and other outgoings.

H. SEVERABLITY

If any provision of this agreement shall be determined to be void or unenforceable under applicable laws/order/notification, such provision shall be deemed amended or deleted in so far as reasonably with the remaining part of this agreement and to the extent necessary to conform to applicable law and the remaining part shall remain valid and enforceable as applicable at the time of execution of this agreement.

I. FORCE MAJEURE

The Company shall not be held responsible or liable for not performing or delay in performing any of its obligations as provided in this agreement if such performance is prevented, delayed or hindered by any reason(s) beyond the control of the Company including but not limited to non-availability of any building material due to market conditions or enemy action or natural calamities or Act of God or strike, lockout, or other labour disorder, act of foreign or domestic de jure or de facto Government, whether by law, order, legislation decree, rule, regulation or otherwise, revolution, civil disturbance, breach of the peace, declared or undeclared war, act of interference or action by civil or military authorities or any other cause.

J. GENERAL TERMS AND CONDITIONS

1. The basis of calculating the proportionate charges, fee etc payable by any Allottee will be the proportion of the area of his/her/their Said Plot to the total area of all Plots / Project affected by that charges, fee etc.
2. The Allottee shall not make any encroachment or obstruction in common areas/facilities/services or cause hindrance in use and enjoyment of all common areas/facilities/services of the Project.
3. The address given in the Application Form shall be taken as final unless any subsequent change has been intimated under Regd. A/D letter. All demand notices, letters etc posted at the given address shall be deemed to have been received by the Allottee.
4. The Allottee shall not use or allow the use of the Said Plot for any purpose other than stated hereinabove or for any activity barred by any relevant government norm/policy.

5. The Allottee/s shall make all payments through Demand Draft / cheque drawn in favour of **"Eldeco Sidcul Industrial Park Ltd. – Collection Escrow A/c."** payable at New Delhi only or as may be directed by the Company.

6. In case of NRI/Person of Indian Origin buyers, the observance of the provisions of the Foreign Exchange Management Act, 1999, Reserve Bank of India Act and Rules made there under or any statutory amendment/s, modification/s made thereof and all other applicable law as may be prevailing including that of remittance of payment, Transfer/Sub-Lease deed of immovable property in India shall be the responsibility of the Allottee. The Allottee understand and agrees that in the event of failure on his/her/their part to comply with the applicable guidelines issued by Reserve Bank of India, he/she/they shall be liable for any action under Foreign Exchange Management Act, 1999, as amended from time to time. The Company accepts no responsibility in this regard.

7. The amounts paid by the Allottee to the Company to the extent of 20% of the Basic Price of the Said Plot shall constitute the Earnest Money which may be forfeited in case of non-fulfillment of terms of allotment.

8. The Allottee understands and acknowledges that the Company is not responsible for provisions and maintenance of facilities/services, which are external to the scope of development by the Company. External infrastructure means and includes access roads to the Industrial Park, transport and electricity facilities, outfall of sewerage and drainage from the Industrial Park, river training and Guds on rivers Kailash and Baigul etc. The Allottee explicitly agrees and understands that any shortfall in the provision and upkeep of the internal services within the Project caused by inadequate support of the external services to be provided by external authorities/public agencies shall not be Company/Maintenance Agency liability.

9 . The Allottee /s shall pay, in respect of his / her / their Said Plot, all charges payable to various departments or to the Company (as may be applicable) for obtaining service connections like electricity, telephone, water, sewer etc. including security deposits for sanction and release of such connections, as well as service charges pertaining thereto as and when demanded or requisite. If the Company pay these similar charges in bulk to any public or private agency then it shall be liable to recover the same on Pro-rata basis from Allottees.

10. The Company has made clear to the Allottee that it shall be carrying out extensive developmental / construction activities for many years in future in the entire area falling outside the area in which Said Plot is located and that the Allottee has confirmed that he /she/they shall not raise any objection or make any claims or default any payments as demanded by the Company on account of inconvenience, if any, which may be suffered due to such development / construction activities or incidental / relating activities.

11. The Allottee agrees and undertakes that he/she/they shall, on taking possession of the Said Plot or before, have no right to object to the Company carrying out development / construction activities in the areas adjoining the Said Plot.

12. The Company reserves to itself all mines and minerals whatsoever including sub-soil water in or under the Said Plot with all such rights and powers as may be necessary or expedient for the purpose of searching, working, obtaining, removing and enjoying the same at all such times and in such manner as it may deem fit, with

Allottee/s signature

power to carry out any survey of all or any part of the Said Plot and to sink pits, erect building, construct liens and generally appropriate and use surface of the Said Plot for the purpose of doing the full enjoyment of the exceptions and reservations herein contained. Provided that the Allottee shall be entitled to receive from the Company such payment for the occupation by it of the surface and for the damage done to the surface or building on the Said Plot by such works or letting down as may be agreed upon between the Company and the Allottee.

13. In case of joint application, the Company may, at its discretion, without any claim from any person, do correspondence with any one of the Joint Allottees and such correspondence shall be deemed as correspondence to all the joint Holders and sufficient for any purposes whatsoever.

14. That for all intents and purposes, singular includes plural and masculine includes feminine.

15. Any alteration/s or addition in the terms and conditions of this agreement without the prior consent/approval of the Company shall render the alteration/s or addition null and void for all purposes.

16. The Company's sale brochures/CD walk through, advertisement(s) and other sale document(s) are purely conceptual and not a legal offering. Further the Company reserves the right to add/delete/modify any such details/specifications / facilities.

17. In the case of any conflict between the terms of this Agreement and the terms /specifications mentioned in Company's sale brochures/CD walk through, advertisement(s), other sale document(s) and application form, this Agreement will prevail & control.

18. The Allottee/s agrees & undertakes to pay the Stamp Duty and/or other incidental charges, if levied or imposed any local administration, State, Government, Central Government on this agreement.

19. That it shall be mandatory on the Applicant(s) to provide Pan No / GIR No / Form 60 (duly complete in all respects) while filling in the Application Form. In the absence of the same, the Allotment Card and Agreement shall not be issued. For delay arising on account of incomplete form, the payment schedule shall not be affected and the Applicant(s) / Allottee(s) shall be liable to pay the interest accruing on this delay.

20. The Company, its officers / representatives, at all reasonable times and in reasonable manner after prior notice in writing, enter in and upon any part of the Said Plot and building erected thereon for the purpose of ascertaining that the Allottee /s has duly performed and observed the conditions to be observed under the provisions of the Allotment/ Sub Lease / Lease Deed.

21. The Allottee / s shall comply with all the Company's Estate Management regulations dealing with Malba, Cleanliness, quantum and the quality of effluent discharge, solid waste disposal, green cover, obligations, vehicle parking regulations etc. among other things for proper maintenance of the Industrial estate and its surroundings. The Company shall be within its rights to ensure compliance of measures considered necessary for its maintenance and levy charges, fines and penalties if necessary, towards achievement of its objectives.

22. The Company will be competent to resume Said Plot in its Industrial Park in case an Allottee defaults in complying with the terms and conditions of allotment/ leasing /transfer etc. The resumption of Said Plot would be approved by the Competent Authority of Company after giving show cause notice. Upon resumption, the booking amount deposited by the allottee will be forfeited and with balance amount refunded without interest. The Allottee will be free to remove the structure/debris, if any, within a period of two months of resumption order at his/her/its own cost, failing which it shall be removed by the Company at the Allottee's cost. It may be clarified that on resumption the Allottee shall not be entitled to any payment/compensation for building constructed by it on the Said Plot.

23. The Company shall have the full right, power and authority at all times, to do through its officers or representatives, all acts and things which may be necessary or expenditure for the purpose of enforcing compliance of all or any of the terms conditions and reservations imposed and to recover from allottee as first charge upon the Said Plot / building the cost of doing all or any such act and things and all costs incurred in connection therewith or in any way relating thereto.

24. All or any disputes arising out of or touching upon or in relation to the terms of this application and / or Allotment Certificates & Agreement including the interpretation and validity of the terms thereof and the respective rights and obligations of the parties shall be settled amicably by mutual discussion failing which the same shall be settled through arbitration. The arbitration proceeding shall be governed by the Arbitration and Conciliation Act, 1996 or any statuary amendments / modification thereof for the time being in force. A sole arbitrator who shall be appointed by the Company, the arbitrator so appointed shall hold the arbitration proceedings at an appropriate location in New Delhi. The Allottee hereby confirms that he /she shall have no objection to this appointment.

25. The courts at Delhi alone and the High court at Delhi alone shall have the jurisdiction in all matters arising out of / touching and / or concerning this application and / or Allotment Certificate Agreement regardless of the place of execution of the application which is deemed to be at New Delhi.

26. This agreement is being signed in two original sets on Rs 100/- Non Judicial Stamp Paper to be kept one by each party to this agreement.

For Eldeco SIDCUL Industrial Park Limited

(Authorized Signatory)

Witness:

1. Vidham Chand Jha
Vill-Garhi, Sec-68
Noida

Witness :

1. _____

(Allottee's Signature)

Allottee/s signature

ENCLOSURES 3: TOPO SHEET

निर्यात के लिए नहीं NOT FOR EXPORT

OPEN SERIES MAP

No. H44N12

Scale 1:50,000

H44N7 (53O/7)	H44N11 (53O/11)	H44N15 (53O/15)
H44N8 (53O/8)	Naini Tāl UTTARĀKHAND H44N12 (53O/12)	H44N16 (53O/16)
H44T5 (53P/5)	Udham Singh Nagar UTTARĀKHAND H44T9 (53P/9)	H44T13 (53P/13)

1 Almora, UTTARĀKHAND.
2 Champāwat, UTTARĀKHAND.
3 Pilibhit, UTTAR PRADESH.
4 Bareilly, UTTAR PRADESH.
5 Rāmpur, UTTAR PRADESH.

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2011.

Price: ₹ 77/–

CONVENTIONAL SYMBOLS

Express Highway: with toll; with bridge; with distance stone
Roads, metalled: according to importance
Roads, double carriageway: according to importance
Unmetalled road. Cart-track. Pack-track and pass. Foot-path
Streams: with track in bed; undefined. Canal
Dams: masonry or rock-filled; earthwork. Weir
River: dry with water channel; with island & rocks. Tidal river
Submerged rocks. Shoal. Swamp. Reeds
Wells: lined; unlined. Tube-well. Spring. Tanks: perennial; dry
Embankments: road or rail; tanks. Broken ground
Railways, broad gauge: double; single with station; under constrn
Railways,other gauges: double; single with distance stone; do
Mineral line or tramway. Kiln. Cutting with tunnel
Contours with sub-features. Rocky slopes. Cliffs
Sand features: (1)flat.(2)sand-hills (permanent). (3)dunes(shifting)
Towns or Villages: inhabited; deserted. Fort
Huts: permanent; temporary. Tower. Antiquities
Temple. Chhatri. Church. Mosque. Idgāh. Tomb. Graves
Lighthouse. Lightship. Buoys: lighted; unlighted. Anchorage
Mine. Vine on trellis. Grass. Scrub
Palms: palmyra; other. Plantain. Conifer. Bamboo. Other trees
Areas: cultivated; wooded. Surveyed tree
Boundary, international
" state: demarcated; undemarcated
" district; subdivision, tahsil or tāluk; forest
Boundary, Pillars: surveyed; unlocated
Heights, triangulated: station; point; approximate. △ 200 . 200 . 200
Bench-mark: geodetic; tertiary; canal . BM 63·3 . BM 63·3 . 63
Post office. Telegraph office. Overhead tank. t
Rest house or Inspection bungalow. Circuit house. Police station
Camping ground. Forest: reserved; protected . RF PF
Spaced names: administrative; locality or tribal . KIKRI NĀGA
Hospital. Dispensary. Veterinary: Hospital / Dispensary
Aerodrome. Helipad. Tourist site
Power line: with pylons surveyed; with poles unsurveyed

REFERENCES

NH 87 National Highway No. 87. SH 32 State Highway No. 32.
SH 17 State Highway No. 17. PWD Public Works Department.
Chy Chimney

NOTES :–

Heights and contours have not been shown.
A relative height, ‚6‚ represents the approximate height, in metres, between the top and bottom of a steep slope.
The kilometre stone numbers along roads, railways, canals and drains are shown in slant type, e.g., ‚5‚, whereas milestone numbers are shown in upright type, e.g., ‚5‚.
Permission to use the roads in the Reserved Forest areas is required from the Forest authorities.
The common boundaries between Reserved / Protected Forests have not been shown for want of reliable information.
Administrative names and boundaries in this sheet have been shown as per present political set-up after formation of Uttarākhand State.

A Surveyed during 1964-65. Compiled from 1:25,000 scale survey during 1987-88. Updated for major details during 2005-06.

Projection – UTM *Datum – WGS 84*

Magnetic Variation from True North about $1\frac{1}{2}^{\circ}$ East in 2005.
(Increasing by about 1′ annually).

500 m to 1 cm **1:50,000** 2 cm to 1 km

Metres 1000 500 0 1 2 3 Kilometres

For further details about this map, please contact
Director
Uttarākhand & West Uttar Pradesh Geo-Spatial Data Centre
Survey of India, 17 E.C. road, Karanpur
Dehra Dūn.

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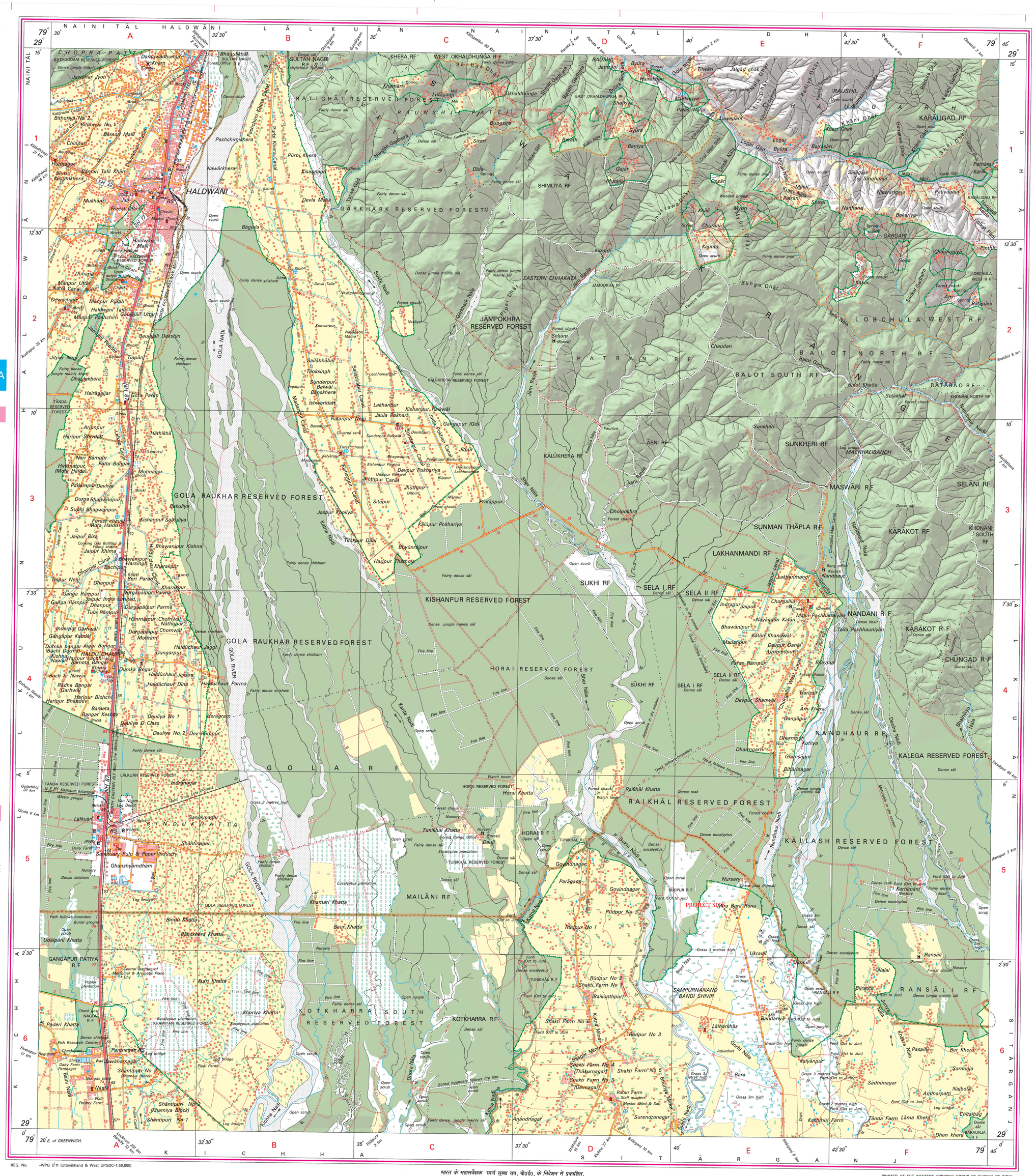

REG. No. –WPG D'11 (Uttarākhand & West UPGDC-1:50,000)

भारत के महासर्वेक्षक स्वर्ण सुब्बा राव, बीएई, के निदेशन में प्रकाशित,
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ENCLOSURES 4: PROPOSED TERMS OF REFERENCE

7(d):STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR COMMON HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES (TSDFS) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

1) Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental damages, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.

2) Submit the details of the road/rail connectivity along with the likely impacts and mitigative measures

3) Submit the present land use and permission required for any conversion such as forest, agriculture etc

4) Examine the details of transportation of Hazardous wastes, and its safety in handling.

5) Examine and submit the details of on line pollutant monitoring.

6) Examine the details of monitoring of Dioxin and Furon.

7) MoU for disposal of ash through the TSDF.

8) MoU for disposal of scrubbing waste water through CETP.

9) Examine and submit details of monitoring of water quality around the landfill site.

10) Examine and submit details of the odour control measures.

11) Examine and submit details of impact on water body and mitigative measures during rainy season.

12) Environmental Management Plan should be accompanied with Environmental Monitoring Plan and environmental cost and benefit assessment. Regular monitoring shall be carried out for odour control.

13) Water quality around the landfill site shall be monitored regularly to examine the impact on the ground water.

14) The storage and handling of hazardous wastes shall be as per the Hazardous Waste Management Rules.

15) Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.

16) Public hearing to be conducted for the project in accordance with provisions of Environmental Impact

Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.

17) A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.

18) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

19) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.

20) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "http://moef.nic.in/Manual/Incinerator"

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