

राज्य स्तर पर्यावरण समाघात निर्धारण प्राधिकरण, उत्तराखण्ड, 653, इन्दिरानगर कालोनी, सीमाद्वार रोड, देहरादून- 248006 (पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, नई दिल्ली द्वारा गठित)



सत्यमेव जयते

State Level Environment Impact Assessment Authority, 653, Indiranagar Colony, Seemadwar Road, Dehradun- 248006 (Constituted by Ministry of Environment, Forests and Climate Change Government of India.)
Phone No- 0135-3510581
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E.C.No- 248 -07(11)/2019

Dated- 31 -07-2021

To,

M/s Bharat Environmental Solution,
Khasra No. 923 to 1002, Village Kodarna,
Tehsil- Narendra Nagar, Tehri Garhwal

Sub: Regarding Environment Clearance for Proposed Common Bio Medical Waste Treatment Facility at Khasra No. 923 to 1002, Village-Kodarna, Tehsil- Narendra Nagar, Tehri Garhwal.

Kindly refer to your online proposal No SIA/UK/MIS/64108/2021 submitted to SEIAA Uttarakhand regarding aforementioned subject. The details about the project site and proposal for EC as per the documents submitted by the project proponent is as under:

S.No	Parameters	Description																		
1.	Proposal for EC	Common Biomedical Waste Treatment Facility (CBWTF) by M/s Bharat Environmental Solutions																		
2.	Proposed site location	Khasra No. 923 To 1002, Village- Kodarna, Tehsil-Narendra Nagar, Distt. Tehri Garhwal, Uttarakhand																		
3.	Coordinates of Project site	<table border="1"> <tr> <td>Latitude</td> <td>Longitude</td> </tr> <tr> <td>30°12'11.4" N</td> <td>78°15'25.7" E</td> </tr> </table>	Latitude	Longitude	30°12'11.4" N	78°15'25.7" E														
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4.	Total Plot Area	0.4340 Ha																		
5.	Production Capacity	<p>The Proposed Plant Capacity is as follows :</p> <table border="1"> <thead> <tr> <th>Particular</th> <th>Number</th> <th>Capacity</th> </tr> </thead> <tbody> <tr> <td>Incinerator</td> <td>1 +1 (Standby)</td> <td>200+100(stand by) Kg/hr</td> </tr> <tr> <td>Autoclave</td> <td>1+1 (Standby)</td> <td>500 Ltr/hr</td> </tr> <tr> <td>Shredder</td> <td>1</td> <td>250 Kg/hr</td> </tr> <tr> <td>Effluent Treatment Plant</td> <td>1</td> <td>5+5 KLD modular type</td> </tr> <tr> <td>Green insulated DG Set</td> <td>1</td> <td>65 KVA</td> </tr> </tbody> </table>	Particular	Number	Capacity	Incinerator	1 +1 (Standby)	200+100(stand by) Kg/hr	Autoclave	1+1 (Standby)	500 Ltr/hr	Shredder	1	250 Kg/hr	Effluent Treatment Plant	1	5+5 KLD modular type	Green insulated DG Set	1	65 KVA
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6.	Water requirement (KLD)	<ol style="list-style-type: none"> 1. Incineration Process 2.40 KLD 2. Steam Generation(Heat Exchanger) 0.20 3. Miscellaneous i.e floor washing, vehicle washing etc. 4.20 4. Domestic purpose 0.60 5. Green Belt 3.50 <p>Total 10.9 (6.90 Fresh water+ 4.0 Recycled Water)</p>																		
7.	Source of water	Bore well Supply and Jal Nigam Supply																		
8.	Waste Water Management	ETP (Capacity – 5+5 KLD modular type)																		
9.	Solid Waste Generation & Disposal	<ul style="list-style-type: none"> ❖ Quantity of solid waste generated 4.0 kg ❖ Organic solid waste : 60 % of the total waste: 2.40 kg ❖ Inorganic solid waste : 40 % of the total waste: 1.60 kg 																		
10.	Hazardous Waste Management	As per the plan submitted collection storage, transportation and disposal will be done through TSDF as per MSIHC rules.																		
11.	Total Manpower	20 Nos.																		
12.	Electricity/Power requirement	100 KVA of power consumption is provided by the Uttarakhand Power Corporation. Additional DG Set of 65 KVA (Fuel is used for power backup propose).																		
13.	Land form, Land use and land ownership	It is an agricultural land. NOC regarding CLU has already been obtained vide Gazette Notification, Govt. of Uttarakhand letter number: 410/XXXVI(3)/2020/ 58(1)2020, Dehradun, dated 29th Oct' 2020.																		
14.	Project cost	Cost for Proposed project activity is ₹3.0 Crore																		

15.	Corporate Environment Responsibility (CER)	2 % of the project cost.
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The SEAC during its meeting held on 8th - 9th July, 2021 had undertaken appraisal of the project based on the EIA/EMP report and public hearing. It has been found that the project proposal is classified under category B1 of EIA notification 2006. Based on the recommendation of SEAC and after due deliberation and examination of the proposal, the SEIAA hereby grant of Environmental Clearance (EC) for the above project proposal under provision of EIA notification 2006/Doon Valley Notification 1989 (as amended from time to time). The conditions imposed for strict compliance is as under:-

1- Pre-Construction Phase

- 1.1. The project proponent should advertise with basic details at least in two widely circulated local newspapers, within seven (7) days of the receipt of the clearance letter informing that the project has been accorded environmental clearance which is available with the State Environment Impact Assessment Authority, Dehradun and a copy of the same is being sent to the Regional Office of Ministry of Environment and Forest, Government of India located at Pearson Road, FRI Campus, Dehradun.
- 1.2. A copy of the Environmental Clearance letter shall be sent by the proponent to the concerned Panchayat and the local NGO, if any from whom suggestion/representation, if any, were received while processing the proposal.
- 1.3. Consent to Establish shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site
- 1.4. The Site Lay out plan and Building/Machinery installation plan should have been approved by the concerned Department/Agency of the State Government before work start up at the construction site. The structural design and other aspects of the building shall comply with guidelines of National Building Code. This shall be ensured by concerned Department of State Government/Accredited Agencies
- 1.5. The Building/Machinery installation plan and structural design shall comply with requirements of Seismic Zone – IV as outlined in National Building Code

2- Construction Phase

- 2.1 Consent to Establish shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site
- 2.2 The Site Lay out plan and Building/Machinery installation plan should have been approved by the concerned Department/Agency of the State Government before work start up at the construction site. The structural design and other aspects of the building shall comply with guidelines of National Building Code. This shall be ensured by concerned Department of State Government/Accredited Agencies
- 2.3 The Building/Machinery installation plan and structural design shall comply with requirements of Seismic Zone – IV as outlined in National Building Code
- 2.4 The topsoil excavated during construction work shall be used for backfilling/landscape development/green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority
- 2.5 The onsite levelling and dressing should ensure minimal vegetation clearing and soil erosion. If necessary organic mulching should be done to avoid soil erosion. There shall not be any felling of green trees for the purpose of this project
- 2.6 The disposal of muck should adhere to standards of general safety and health concerns of local people and also it should have no adverse effect on the neighboring community. The muck shall not be disposed off in adjoining forest areas without meeting requirements of Forest (Conservation) Act, 1980.
- 2.7 Temporary storage units should be erected in the construction site and transportation of construction materials shall be restricted to non-peak hours. The dust pollution shall be suppressed by regular water sprinkling
- 2.8 The use of ready mixed concrete/premised concrete, curing agents and other such practices shall be adopted to minimize use of water on site
- 2.9 All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as such materials leach into ground water.
- 2.10 The water requirement during construction phase shall be met from regular water supply/private tankers. There shall be no extraction of ground water and water requirement for the project in operational phase shall be met entirely from private tankers. Construction work requiring water shall not be carried out during 30th April to 15th June in the year
- 2.11 The soil and groundwater samples shall be tested from accredited agencies and it shall be ensured that they comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- 2.12 DG Sets shall be used only as backup power. The capacity of DG sets shall not exceed capacity of 65 KVA and it should have stack height complying with CPCB norms.

2.13 The use of CFL and such other power saving devices shall be maximized. Common areas and landscape areas shall be illuminated with solar lighting system. At least 40 percent of the total power requirement after completion of construction unit shall be met from solar energy.

2.14 Rainwater harvesting for roof top and surface run off should be ensured as per the plan submitted. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles. The bore well for rain water recharging should be kept at 5 metres above the highest ground water table

2.15 The storm water management shall be so designed as to avoid discharge of water directly to the forest areas/adjoining locality which may lead to water logging in nearby areas. The storm water shall be put to use for recharging of aquifers and also pond creation within the campus

2.16 One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material has to be used during plantation as per standards of State Forest Department.

2.17 Acoustic enclosures shall be provided with all construction machineries and DG sets on site complying with Noise Levels of CPCB standards. The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system as approved by UEPPCB.

2.18 The construction debris may be used for land fill or disposed through authorized vendors. The Hazardous substances generated during construction activity shall be disposed off as required by Hazardous Waste (Management, Handling) Rules, 1989 (as amended from time to time). Efforts shall be maximized for use of low toxicity substitutes and low VOC materials.

2.19 The construction work shall be restricted to Sunrise to Sunset period in a day. Any construction activity beyond this period shall be subject to approval of Competent/Designated Authority from time to time.

2.20 The vehicles used at the construction site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non-peak hours.

2.21 All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.

2.22 Adequate drinking water and sanitation facility has to be provided on site for the workforce. Provision should be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.

2.23 The use of plastics during construction activity shall be bare minimum and efforts to use timber substitute materials should be maximized.

2.24 The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.

2.25 The entire site after construction activities should carry signages of garbage collection points, environment awareness etc.

2.26 The proponent shall ensure safety measures against river meandering. It shall also undertake river meandering study in the locality and then construct suitable protective structures for river training

2.27 EMP shall be submitted within three months with the name of person responsible to SEIAA.

3 – Operation Phase

3.1 A modular type (5 + 5 KLD of capacity) ETP shall be installed for treating waste water upto tertiary level. Sewage Treatment Plant/ETP shall be complying with parameters of CPCB/UEPPCB guidelines. Treated water should be used for flushing, green belt development, road washing, DG cooling and other miscellaneous purposes

3.2 The excess treated waste water may be transported through pipe lines/tankers to adjoining construction sites or industrial areas as the demand arises

3.3 The installation of sewage treatment plant should be certified by an independent expert and a report in this regard should be submitted to the UEPPCB. Necessary measures should be made to mitigate the odour problem from STP

3.4 Guidelines of Municipal Solid Waste (Management & Handling) Rules, 2000 (as amended from time to time) should be followed for disposal of solid waste. Two bin collection system for bio degradable and non bio degradable waste should be adopted. Bio degradable waste shall be sent to composting pit and non biodegradable/inert waste disposed off through authorized recyclers. STP sludge shall be dried and used as organic manure

3.5 Energy consumption measures like installation of CFLS/TFLS for the external lighting area should be ensured. The disposal of used CFLS/TFLS should be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination

3.6 DG sets shall be used only in emergency purpose. The use of solar energy and inverter shall be ensured and maximized as backup power

4-Condition for Entire life of project

4.1 DG sets shall be used only in emergency purpose. The use of solar energy and inverter shall be ensured and maximized as backup power.

4.2 The SEIAA Uttarakhand reserves the right to withdraw the Environmental Clearance subject to any change in the Government policy by the Central Government or State Government of Uttarakhand, as may be applicable to this project.

4.3 If the ownership is transferred then fresh Environment Clearance is to be obtained under EIA notification dated 14.09.2006. However, no activity shall be undertaken till the Environment Clearance is transferred in his name and he is lawfully bound to Comply with the conditions of the Environmental Clearance.

4.4 All directions of Fire Department shall be complied.

4.5 Provisions shall be made for the integration of Solar Power System.

4.6 Yearly monitoring of ground water table and quality should be carried out and should be submitted to SEIAA and UEPCCB Uttarakhand.

4.7 Two chambered container or two separate container (one for recyclable waste and other for all organic waste) shall be placed at appropriate distance.

4.8 Rest room facilities shall be provided for service worker.

4.9 The project proponent shall submit half yearly compliance report of stipulated conditions of Environment Clearance in soft copy through PARIVESH PORTAL given link: <https://parivesh.nic.in>. Yearly monitoring of ground water table and quality should be carried out and should be submitted to SEIAA and UEPCCB, Uttarakhand.

4.10 Project Proponent shall designate a person responsible for implementing the environmental management plan within a month and inform SEIAA accordingly

4.11 Inner Road/paths should be planted by shade bearing trees on the advice of local D.F.O.

5- Duties/Responsibilities of Common Biomedical Waste Treatment Facility

5.1 Report to SPCBs/PCCs about receiving of waste from COVID-19 isolation wards / Quarantine Camps / Quarantined homes / COVID-19 Testing Centers.

5.2 Operator of CBWTF shall ensure regular sanitization of workers involved in handling and collection of biomedical waste.

5.3 Workers shall be provided with adequate PPEs including three layer masks, splash proof aprons/gowns, nitrile gloves, gum boots and safety goggles.

5.4 Use dedicated vehicle to collect COVID-19 ward waste. It is not necessary to place separate label on such vehicles;

5.5 Vehicle should be sanitized with sodium hypochlorite or any appropriate chemical disinfectant after every trip.

5.6 COVID-19 waste should be disposed-off immediately upon receipt at facility.

5.7 In case it is required to treat and dispose more quantity of biomedical waste generated from COVID-19 treatment, CBWTF may operate their facilities for extra hours, by giving information to SPCBs/PCCs.

5.8 Operator of CBWTF shall maintain separate record for collection, treatment and disposal of COVID-19 waste.

5.9 Do not allow any worker showing symptoms of illness to work at the facility. May provide adequate leave to such workers and by protecting their salary.

6-Duties of Urban Local Bodies

6.1 Information on each Quarantine Camps/ Quarantine Homes/ Home-Care should be available with local administration and provide updated list to SPCBs from time to time;

6.2 In case of quarantine camps, ensure that biomedical waste is collected directly by CBWTFs identified by ULB. Waste from quarantine camps to be lifted by CBWTFs on call basis as and when the biomedical waste gets generated. Provide contact details of CBWTF operator at Quarantine Camps;

6.3 Provide necessary support, security including authorization to staff of CBWTFs;

6.4 ULB shall engage CBWTF operator for ultimate disposal of biomedical waste collected from quarantine home/home care or waste deposition centers or from door steps as may be required depending on local situation; ULB shall make agreement with CBWTF in this regard.

6.5 ULBs envisage following options to facilitate safe collection and disposal of biomedical waste from quarantined homes/Home care:

(a) Engage authorized waste collectors for door steps collection of biomedical waste and transfer to collection points for further pick-up by CBWTF; and/or

(b) In case number of quarantined homes/Home-care units are less, ULBs may engage services of CBWTFs to collect the waste directly from door-steps.

6.6 Provide yellow colored bags (designated for BMW) to the persons responsible for operating Quarantine Camp or home-care. If required, such bags may be provided through CBWTF.

6.7 ULBs shall ensure the following in engaging authorized waste collectors at door-steps or at waste deposition centers:

- Create a separate team of workers who shall be engaged in door step waste collection at waste deposition centres or at quarantine homes or home care.

- Ensure that only designated staff collects biomedical waste from quarantine homes or home care.
- Training should be provided for sanitization, about collection of biomedical waste, precautionary measures to handle biomedical waste.
- Impart training to waste collector in handling of biomedical waste including methods of sanitization. Training to waste collectors should be arranged through CBWTF operators;
- The staff involved in handling and collection of waste from quarantine homes or home care centers shall be provided with adequate Personnel Protective Equipment such as three layer masks, splash proof aprons/gowns, heavy-duty gloves, gum boots and safety goggles. These PPEs are required to be worn all the time while collecting of waste from quarantine center/quarantine homes/home care/waste deposition centres.
- Use dedicated carts / trolleys / vehicles for transport of biomedical waste. Ensure sanitization of vehicles with 1% hypochlorite after each trip.
- Ensure that, waste collectors arriving at quarantine center or at home care shall spray the disinfectant (1% hypochlorite solution) on the bin used for yellow bag

6.8 Establish common waste deposition centers (as stipulated under SWM Rules, 2016) for receiving / collection of biomedical waste. For this purpose, existing Dhalaos if any may be converted suitably.

6.9 The general solid waste collected from quarantine homes or home care shall be disposed off as per SWM Rules, 2016.

6.10 Services of Common Biomedical Waste Treatment & Disposal Facilities (CBWTFs) and staff associated with CBWTFs for collection, transportation, treatment and disposal of biomedical waste generated from hospitals including COVID-19 isolation wards, Quarantine Camps, etc. may be considered an essential service as part of health infrastructure.

6.11 Facilitate smooth operations of CBWTFs.

6.12 In addition to above conditions Project Proponent is bound to comply with the other conditions mentioned in Bio Bio-Medical Waste Management Rules 2016 (as amended time to time)

In view of the COVID-19 scenario, social distancing at work-place shall be maintained, and such other conditions and safeguard shall be ensured as directed by Government of India, Government of Uttarakhand and concerned District Magistrate from time to time.

Your's Faithfully


(Sushanta Kumar Pattnaik)
Member Secretary,
SEIAA, Uttarakhand

No.- 248 07(11)/2019 dated- as above

Copy to following for information and necessary action:

1. APCCF, Regional office (Central) MoEFCC Govt of India, 25 Subhash Road, Dehradun.
2. Additional Chief Secretary, Forests & Environment, Government of Uttarakhand, Dehradun.
3. District Magistrate, Tehri Garhwal.
4. Member Secretary, UEPPCB, IT Park Dehradun.
5. D.F.O Narendar Nagar Forest Division Narendar Nagar, Tehri Garhwal.
6. Guard File for uploading in Parivesh Website.


(Sushanta Kumar Pattnaik)
Member Secretary,
SEIAA, Uttarakhand