

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  
Email- seiaa.seac.uk@gmail.com

सुरमांष: 0135-3510581

ईमेल: seiaa.seac.uk@gmail.com

E.C.No- 259-07(17)/2019

Dated- 31-07-2021

To,

Executive Officer,  
Nagar Palika Parishad,  
Srinagar, Dist- Pauri Garwal.

Sub: Regarding Environment Clearance for setting up Integrated Municipal Solid Waste Processing Facility in Srinagar Khasra No- 169, 170, 171, 187, 188, 189, 190, at Village- Girgaon, Tehsil- Srinagar, District- Pauri Garhwal.

Kindly refer to your online proposal No SIA/UK/MIS/61450/2019 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	Integrated Municipal Solid waste processing facility for Srinagar at Village-Girgaon, Tehsil- Srinagar ,District - Pauri Garhwal (Uttarakhand) by Nagar Palika Parishad Srinagar .																																	
2.	Production Capacity	Municipal Waste Processing Capacity: 22.1 TPD																																	
3.	Total Plot Area	2.66 Acre																																	
4.	Proposed site location	Khasra No - 169, 170, 171, 187, 188, 189, 190, Village : Girgaon, Tehsil- Srinagar ,District - Pauri Garhwal (Uttarakhand)																																	
5.	Coordinates of Project site	<table border="1"> <thead> <tr> <th>Pillar No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>30°12'28.93"N</td> <td>78°44'22.23"E</td> </tr> <tr> <td>B</td> <td>30°12'28.27"N</td> <td>78°44'25.73"E</td> </tr> <tr> <td>C</td> <td>30°12'27.18"N</td> <td>78°44'26.76"E</td> </tr> <tr> <td>D</td> <td>30°12'26.18"N</td> <td>78°44'26.63"E</td> </tr> <tr> <td>E</td> <td>30°12'25.87"N</td> <td>78°44'29.33"E</td> </tr> <tr> <td>F</td> <td>30°12'24.47"N</td> <td>78°44'29.14"E</td> </tr> <tr> <td>G</td> <td>30°12'26.45"N</td> <td>78°44'25.43"E</td> </tr> <tr> <td>H</td> <td>30°12'26.93"N</td> <td>78°44'21.23"E</td> </tr> <tr> <td>I</td> <td>30°12'27.25"N</td> <td>78°44'21.30"E</td> </tr> <tr> <td>J</td> <td>30°12'27.30"N</td> <td>78°44'21.97"E</td> </tr> </tbody> </table> <p>Altitude - 615 m</p>	Pillar No.	Latitude	Longitude	A	30°12'28.93"N	78°44'22.23"E	B	30°12'28.27"N	78°44'25.73"E	C	30°12'27.18"N	78°44'26.76"E	D	30°12'26.18"N	78°44'26.63"E	E	30°12'25.87"N	78°44'29.33"E	F	30°12'24.47"N	78°44'29.14"E	G	30°12'26.45"N	78°44'25.43"E	H	30°12'26.93"N	78°44'21.23"E	I	30°12'27.25"N	78°44'21.30"E	J	30°12'27.30"N	78°44'21.97"E
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5.	Water requirement (KLD)	Fresh Water requirement is 5 KLD																																	
6.	Source of water	Nearest Perennial River																																	
7.	Waste Water Management Waste water generation Mode of Disposal	<ul style="list-style-type: none"> <li>Waste water quantity will be 3.4 KLD,</li> <li>Waste water treatment capacity-5 KLD.</li> <li>Waste water generated from domestic utilities will be treated in STP and leachate will be treated in Leachate Treatment Plant (LTP). Treated water will be used for greenbelt development/plantation and also recirculated/reused in the process.</li> </ul>																																	
8.	Solid waste Generation & Disposal	Process inerts generated during the MSW processing will be disposed in sanitary landfill.																																	
9.	Hazardous Waste Generation & Disposal	As per the plan submitted collection storage, transportation and disposal will be done through TSDF as per MSHC rules.																																	
10.	Total Manpower	Construction phase approx. 50 workers (skilled & semi-skilled workers), rest will be outsourced based on need. During operation phase approx 80 Workers (skilled & semi-skilled workers, Contract labours, drivers, sweepers & support staff).																																	
11.	Electricity/Power	250KVA (Source: UttarakhandVidyutVibhag)																																	

	requirement	DG Set-01 No. 250 KVA.
12	Land form, Land use and land ownership	Government Land. Land Ownership: Nagar Palika Parishad Grinagar.
13	Project cost	₹ 7.52 Crores
14	Corporate Environment Responsibility (CER)	2.00 % of the Capital Investment.

The SEAC during its meeting held on 3<sup>rd</sup> June, 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 (as amended from time to time). The conditions imposed for strict compliance is as under:-

#### 1- Construction Phase :-

- 1.1 Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974 before starting any construction activity at the site.
- 1.2 There shall be no felling of trees at the construction site and further no damage to the local vegetation shall be done. The installation of equipment/machineries shall be done within the vacant space available in the plant premises.
- 1.3 The project site should be well demarcated with boundary wall and made a No Entry Zone. The building plan and structural design of composting plant shall comply with requirements of Seismic Zone – V as outlined in National Building Code. The boundary wall shall be of more than 3 M height.
- 1.4 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. There shall not be any felling of trees during construction.
- 1.5 Temporary storage units should be erected in the construction site. Transportation of construction materials and also transportation of waste shall be restricted to non peak hours. The dust pollution shall be suppressed by regular water sprinkling.
- 1.6 The use of ready mixed concrete/premised concrete, curing agents and other such practices shall be adopted to minimize use of water on site. Light and pre fabricated materials shall be used as far as possible to reduce load on ground/earth.
- 1.7 The water requirement during construction phase shall be met from regular water supply/open source. The use of groundwater shall be strictly prohibited. Construction work requiring water shall not be carried out during 30<sup>th</sup> April to 15<sup>th</sup> June in the year.
- 1.8 DG Sets shall be used only as backup power. The capacity of DG sets shall not exceed 250 KVA and it should have stack height complying with CPCB norms.
- 1.9 The construction machineries and also machineries used in composting plant/land fill and DG sets shall have acoustic enclosures to reduce noise level as per CPCB norms.
- 1.10 During construction of service roads/link roads, cut and fill method/technique shall be followed.
- 1.11 The garbage dump sites shall have proper confinement /protection to negate any chances of run off to adjoining water body during rains.
- 1.12 The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system as approved by UEPPCB.

#### 2- At Collection Site :-

- 2.1 The Municipal Solid waste shall be sent to the treatment facility after collection. Secondary collection points (SCPs) shall be constructed. Adequate storage facilities and hygienic condition are to be provided in SCPs.
- 2.2 Waste (garbage, dry leaves) shall not be burnt.
- 2.3 Stray animals shall not be allowed to move around waste storage facilities.
- 2.4 It shall be the responsibility of generator of wastes to avoid littering and ensure delivery of wastes in accordance with the collection and segregation system as notified by the municipal authority.
- 2.5 Municipal authority shall organize awareness programmes for segregation of wastes.
- 2.6 Two bin system for storage of waste shall be used.
- 2.7 The segregated organic waste shall be sent to the compost plant in cured manner.
- 2.8 The composting plants facility shall have waste receiving platform.
- 2.9 There shall be proper space for the easy movement of loader and operation of vehicles at processing area.
- 2.10 Waste shall be unloaded on window platform only after weighing.
- 2.11 Digested materials will be stacked in the curing area to remove moisture from digested material for effective screening and to protect the digested material from rain.
- 2.12 Adequate drainage at composting facilities should be provided in order to prevent water logging.

- 2.13 Fencing shall be done all around the landfill site and it shall be more than ten feet high. It shall be divided in three sub areas.
- 2.14 The storm water shall not be allowed to enter to active cell of the landfill. Stagnation must be avoided.
- 2.15 Disposal of construction debris at sanitary landfill shall not be permitted.
- 2.16 The waste transported at landfill facility shall be reported with date, time, waste quantity etc.
- 2.17 Slope shall be maintained in the sanitary landfill.
- 2.18 In rainy season the landfill area shall be covered HDPE sheet and it shall be ensured that no water comes in contact with the waste.

### **3- At Processing Area :-**

- 3.1 The composting plant facility shall have waste receiving platform, Monsoon shed. Receiving platform of concrete slope covered with shed will be provided for further segregation to composting pits.
- 3.2 Proper space shall be given for easy movement of loader of operation of vehicles.
- 3.3 Digested material will be stocked in the curing area under shed to remove moisture from digested material for effective screening and to protect the digested material from rain.
- 3.4 Adequate drainage at composting facilities should be provided in order to prevent water logging.
- 3.5 Inset material and rejects of compost shall be transported to sanitary landfill facility site.
- 3.6 Land fill layout should cater the landfill requirement for 20 years as per the MSW Rules, 2000. (as amended from to time)
- 3.7 Adequate bottom liner system and top liner system shall be provided. Appropriate thickness of HDPE liner for the bottom liner as well as top liner for capping should be provided to prevent ant damaging impact in surrounding areas and to prevent water infiltration.
- 3.8 The landfill site should follow liner system as recommended by MoEF, Government of India.
- 3.9 The excavation for landfill shall not be more than 2 meters below the material ground level.
- 3.10 As clay is not available the soil layer for covering should be done with local soil and with 5% bentonite.
- 3.11 The landfill should be covered with amended soil of thickness 60 cm and this shall have permeability  $1 \times 10^{-7}$  cm/sec.
- 3.12 This amended soil shall be covered by drainage of mixture of soil and bentonite. The thickness of this layer shall be 30 cm.
- 3.13 Finally this should be covered by top soil.
- 3.14 Side soil bends shall be created.
- 3.15 The landfill site shall have gas nesting system and shall be connected to flashing exit.

### **4- Closure of the site and post closure care.**

- 4.1 The post closure care of land fills site shall be conducted for at least fifteen years and long term care plan shall consist of the following:-
- 4.2 The integrity and effectiveness of final cover shall be maintained, making repairs and preventing runoff from eroding or otherwise damaging the final cover.
- 4.3 The leachate collection system shall be monitored continuously so that there shall be no over flow of leachate.
- 4.4 The ground water shall be monitored to maintain ground water quality.
- 4.5 The proponent shall submit the closure plan before two years of textatine closure.

### **5- General Condition :-**

- 5.1 The vehicles used at the construction site and also transportation of solid waste shall comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours. The transportation of waste shall be carried out in a closed environment and not in open vehicles. The vehicles carrying waste to collection points and processing areas shall be properly labeled for public awareness.
- 5.2 Energy consumption measures like instaliation 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.
- 5.3 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, and it's record shall be maintained.
- 5.4 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.
- 5.5 The fire safety arrangements and emergency exit plan in the composting plant/unit should be as per the norms of the concerned regulatory authority/agency.
- 5.6 The entire site after construction activities should carry signages of danger zone, garbage collection points, environment awareness etc.
- 5.7 SEIAA/SEAC, Uttarakhand shall be given full cooperation, facilities and documents/data by the project proponents during their inspection regarding implementation of environmental safeguards.



5.8 The SEIAA reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

5.9 All other statutory clearances shall be obtained, as applicable by project proponent from the competent authorities.

5.10 A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the local NGO, if any from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall be put on the website of the Company by the proponent.

5.11 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 by SEIAA Uttarakhand and a copy of the same be sent to the Regional Office of Ministry of Environment, Forests and Climate Change, Govt of India located at 25 Subhash Road, Dehradun.

5.12 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>. The compliance report shall also be e mailed to the Regional Office in Dehradun in [moef.ddn@gov.in](mailto:moef.ddn@gov.in)

5.13 Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project. Any appeal against the Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under provision of National Environment Appellate Act, 1997.

5.14 The area shall be well lighted in right so that wild animals shall not come.

5.15 Green belt shall be developed within and around the site along the periphery in order to reduce the dust generation, noise and odour generation. At least 33% of the area shall be covered by plantation.

5.16 Monitoring wells shall be set up to monitor leakage leachate into ground water. At least four monitoring wells should be setup at each side to monitor ground water flow in all possible directions. These can be located in consultation with UEPPCB.


5.17 No further expansion or modification in the plant shall be carried out without prior approval of SEIAA, Uttarakhand.

5.18 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.

5.19 If this Environmental Clearance 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.

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 Pattnalk)  
Member Secretary,  
SEIAA, Uttarakhand

No.- 07(17)/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, Pauri Garhwal.
4. Member Secretary, UEPPCB, IT Park Dehradun.
5. Division Forest Officer, Pauri Garhwal.
6. Guard File for uploading in Parivesh Website.

  
(Sushanta Kumar Pattnalk)  
Member Secretary,  
SEIAA, Uttarakhand