

Monitoring Report

On the status of compliance of Environment Clearance stipulations

**Integrated Municipal Solid Waste Management
project at Kinduwal in Tehsil Baddi, District Solan,
Himachal Pradesh by**

Baddi Barotiwala Nalagarh Development Authority

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1. Project details

| S. No. | Items | Details |
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| i. | Project type | 7(i). Common Municipal Solid Waste Management Facility |
| ii. | Name of the project | Integrated Municipal Solid Waste Management project in Kinduwal Village, District Solan (Himachal Pradesh) by Baddi Barotiwala Nalagarh Development Authority (BBNDA), Baddi, District Solan, (Himachal Pradesh). |
| iii. | Clearance letter no. and date | F.No. 10-32/2012-IA.III dated 13.08.2015 |
| iv. | Regional Office File no. | NC.RO/Env/PI/HP/1/2015-10-32/2012 |
| v. | Location | Village: Kinduwal Tehsil: Baddi District: Solan State: Himachal Pradesh Latitude: Longitude: |
| vi. | Address of Correspondence | The Chief Executive Officer, |

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| | | <p>Baddi Barotiwala Nalagarh Development Authority (BBNDA), Baddi, District Solan, Himachal Pradesh.</p> <p>Phone: 01795 271121 Fax:</p> <p>Email: ceobbnda_hp@nic.in Website: bbndahp.nic.in</p> <p>Other contact: Shri Bishan Dass (Project Officer) Phone: 09816615636, 09418812636 Email: bishandass068@gmail.com</p> <p>Shri Dinesh Kumar (AE BBNDA) Phone: 09418475336</p> |
| vii. | Present status | Under Construction/partially in operation |
| viii. | Date of site visit | 25.04.2017 |

2. Present status

The Ministry of Environment, Forest and Climate Change has accorded environment clearance for setting up of Integrated Municipal Solid Waste Management project on land area of 2.42 ha at total cost of the project of Rs. 970 lakhs.

The project was found under construction with no significant work undertaken yet, however landfill operation was being undertaken on the day of monitoring.

3. Site pictures

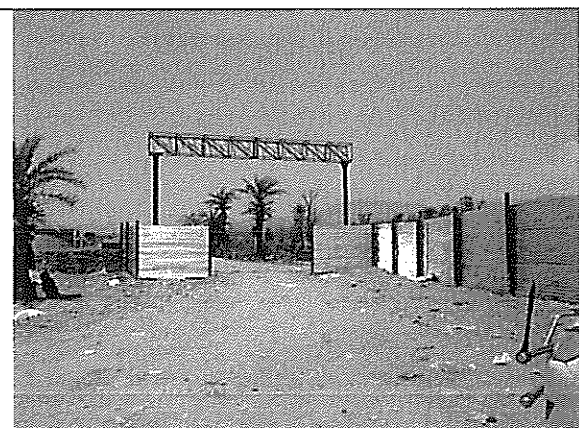


Figure 1. Entrance (view from inside)

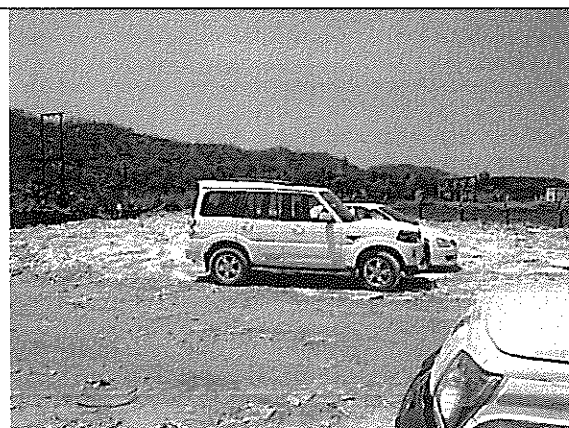


Figure 2. Landfilled site



Figure 3. Ongoing Landfilling activity



Figure 4. Groundwater extraction

4. Condition wise compliance status

| A. | Specific Conditions |
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| i. | <p>“Consent to Establish” shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act 1974.</p> <p>Compliance Status: Not complied Project authorities informed that the Consent to Establish will be obtained soon.</p> |
| ii. | <p>Transportation and handling of Hazardous Wastes shall be as per the Hazardous Wastes (Management, Handling and Trans-boundary Movement) Rules, 2008 including the section 129 to 137 of Central motor Vehicle Rule 1989.</p> <p>Compliance Status: No information provided</p> |
| iii. | <p>Guidelines of State Pollution Control Board (SPCB) for Common Hazardous Wastes Incinerators shall be followed.</p> <p>Compliance Status: Project not yet constructed</p> |
| iv. | <p>Incinerated ash shall be disposed at approved TSDF and MoU made in this regard shall be submitted to the ministry prior to the commencement.</p> <p>Compliance Status: Project not yet constructed Project authorities provided no information about any MoU with TSDF.</p> |
| v. | <p>Periodical air quality monitoring in and around the site shall be carried out. The parameters shall include Dioxin and Furans.</p> <p>Compliance Status: Not complied Project found not yet constructed, but unplanned landfill disposal operation found</p> |

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| | being undertaken. |
| vi. | Use only low sulphur diesel. No other oil shall be used. Compliance Status: Project not yet constructed No significant construction work yet undertaken. |
| vii. | The proponent shall comply with the Environmental standards notified by Ministry of Environment, Forest & Climate Change for incinerators along with the technology/guidelines. Compliance Status: No information provided |
| viii. | Necessary provision shall be made for fire fighting facilities within the complex. Compliance Status: Project not yet constructed |
| ix. | The project proponent should carryout periodical air quality monitoring in and around the site including VOC, HC. Compliance Status: Not complied Project found not yet constructed, but unplanned landfill disposal operation found being undertaken. |
| x. | The project proponent should develop green belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement. Compliance Status: Not complied No green belt development work was found undertaken. Waste was found being landfilled close from the project site boundary itself. |
| xi. | Treated flue gas emissions discharge through stack to atmosphere shall always be less than or equal to the parameter-specific emission standard notified by the CPCB. Compliance Status: Project not yet constructed |
| xii. | All the facilities shall be designed to achieve a minimum temperature of 1100°C in secondary combustion chamber and with a gas residence time in secondary combustion chamber not less than 2 (two) seconds. Compliance Status: Project not yet constructed |
| xiii. | Incineration plants shall be operated (combustion chambers) with such temperature, retention time and turbulence, so as to achieve Total Organic Carbon (TOC) content in the slag and bottom ashes less than 3% or the loss on ignition is less than 5% of the dry weight of the material. |

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| | Compliance Status: Project not yet constructed |
| xiv. | Guidelines published by the Central Board from time to time for common incineration facilities shall be referred for implementation. Compliance Status: Project not yet constructed |
| xv. | Transportation and Handling of Bio-medical Wastes shall be as per the Bio medical Wastes (Management and Handling) Rules, 2000 including the section 129 to 137 of Central Motor Vehicle Rules, 1989. Compliance Status: No information provided |
| xvi. | The proponent should ensure that the project fulfils all the provisions of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 including collection and transportation design etc. and also guidelines for Common Hazardous Waste Incineration - 2005, issued by CPCB. Compliance Status: No information provided |
| xvii. | The gas generated from the landfill facility shall be collected and disposed as per rules. Compliance Status: Not complied No measure for gas collection and its disposal from landfill was found. |
| xviii. | The leachate from the facility shall be collected and treated to meet the prescribed standards before disposal. Compliance Status: Not complied No measure for leachate collection found being undertaken. |
| xix. | The proponent should obtain necessary clearance from the Ground Water Authority. Compliance Status: Not complied Project authorities informed that the clearance will be obtained soon. |
| xx. | The depth of the land fill should be decided based on the ground water level at the site. Compliance Status: No information provided |
| xxi. | Project proponent should prepare and implement an On Site Emergency Management Plan. |

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| | Compliance Status: No information provided |
| xxii. | <p>Project proponent should carryout periodical ground water/soil monitoring in and around the site to check the contamination.</p> <p>Compliance Status: Not complied Project found not yet constructed, but unplanned landfill disposal operation found being undertaken.</p> |
| xxiii. | <p>Project proponent should carryout periodical ground water/soil monitoring in and around the site to check the contamination including TCLP test for heavy metals.</p> <p>Compliance Status: Not complied Project found not yet constructed, but unplanned landfill disposal operation found being undertaken.</p> |
| xxiv. | <p>Green belt of 15 meters shall be provided all along the periphery of the site, as committed. The green belt area shall not be used for any other purpose.</p> <p>Compliance Status: Not complied No green belt development found being undertaken. Moreover no area was found earmarked for green belt development along the periphery and landfill starts from the boundary itself.</p> |
| xxv. | <p>All measures for air pollution control shall be adopted.</p> <p>Compliance Status: Project not yet constructed</p> |
| xxvi. | <p>Rainwater runoff from the landfill area and other hazardous waste management area shall be collected and diverted to the leachate treatment plant.</p> <p>Compliance Status: : Not complied No measure for management of rainwater runoff from landfill area was found.</p> |
| xxvii. | <p>There should not be any spillage from the transportation vehicle.</p> <p>Compliance Status: No information provided</p> |
| xxviii. | <p>The width of all internal roads should be 9.0 meters. The entry and exit point should be at different location.</p> <p>Compliance Status: Project not yet constructed</p> |
| xxix. | <p>Zero discharge system shall be adopted.</p> <p>Compliance Status: Project not yet constructed</p> |

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| xxx. | <p>Double containment system shall be provided for all waste transport vehicles to avoid spillage. The spillage shall be cleared immediately.</p> <p>Compliance Status: No information provided</p> |
| xxxii. | <p>Vehicles should prominently display complaint numbers for use of public as well as antidotes to any toxic waste.</p> <p>Compliance Status: No information provided</p> |
| xxxiii. | <p>All the recommendation of the EMP/DMP shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MOEF&CC along with half yearly compliance report to MOEF&CC-RO.</p> <p>Compliance Status: Not complied No such compliance report submitted.</p> |
| xxxiiii. | <p>The project proponent will set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of the Senior Executive.</p> <p>Compliance Status: Not complied Project authorities assured to constitute the EMC.</p> |
| xxxv. | <p>Untreated domestic effluent should not be discharged into open drain. Till the sewerage system in the Industrial Estate, which is presenting being laid is completed, the domestic effluent should be treated in a well-designed septic tank with soil pit, as committed. As soon as the sewerage system is made operational the domestic effluent from the project should be discharged only into the sewerage system for treatment in terminal STP.</p> <p>Compliance Status: Project not yet constructed</p> |
| xxxvi. | <p>The responses/commitments made to the issues raised during public hearing shall be complied with in the letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.</p> <p>Compliance Status: No information provided</p> |
| xxxvii. | <p>The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.</p> <p>Compliance Status: No information provided</p> |
| B. | General Conditions |
| i. | The project proponent should set up separate environmental management cell for |

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| | <p>effective implementation of the stipulated environmental on of a Senior Executive.</p> <p>Compliance Status: Not complied Project authorities assured to constitute the EMC.</p> |
| ii. | <p>The project proponent should extend full support to the officers of this Ministry/Regional Office during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.</p> <p>Compliance Status: Not complied No such documents provided.</p> |
| iii. | <p>The Ministry 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 Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.</p> <p>Compliance Status: No information provided</p> |
| iv. | <p>In the event of a change in project profile or change in the implementation agency, a fresh clearance shall be obtained from the Ministry of Environment Forest & Climate Change.</p> <p>Compliance Status: No information provided</p> |
| v. | <p>A copy of the clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.</p> <p>Compliance Status: No information provided</p> |
| vi. | <p>The environmental safeguards contained in the EIA report should be implemented in letter and spirit.</p> <p>Compliance Status: Not complied Environmental safeguard measures applicable at this stage of project found inadequate.</p> |
| vii. | <p>A copy of the environment clearance shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's/Tehsildar's office for 30 days.</p> <p>Compliance Status: No information provided</p> |

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| viii. | <p>The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.</p> <p>Compliance Status: No information provided</p> |
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| 5. | <p>These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and Municipal Solid Wastes (Management and Handling) Rules, 2000 including the amendments and rules made thereafter.</p> <p>Compliance Status: No information provided</p> |
| 6. | <p>All other statutory clearance such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained as applicable by project proponents from the respective competent authorities.</p> <p>Compliance Status: No information provided</p> |
| 7. | <p>The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the himachal Pradesh Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at http://www.envfor.nic.in. The advertisement should be made within seven days from the date of receipt of the clearance letter and a copy of the same should be forwarded to the Regional Office of this ministry at Dehradun.</p> <p>Compliance Status: No information provided</p> |
| 8. | <p>This 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.</p> <p>Compliance Status: No information provided</p> |
| 9. | <p>Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</p> <p>Compliance Status: No information provided</p> |
| 10. | <p>Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.</p> |

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| | Compliance Status: Not complied |
| 11. | <p>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 also be put on the website of the company by the proponent.</p> <p>Compliance Status: Partially complied EC letter found uploaded on the website. No further information provided.</p> |
| 12. | <p>The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB.</p> <p>Compliance Status: Not complied</p> |
| 13. | <p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.</p> <p>Compliance Status: Not complied No such reports received.</p> |
| 14. | <p>The environmental statement for each financial year ending 31st March in Form - V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Office of MOEF&CC by email.</p> <p>Compliance Status: Not complied</p> |

5. General remarks

i. No significant construction work was found yet undertaken, however the project site was found being used as landfill without obtaining Consent to Establish and without adequate environment protection measures.

- ii. Project authorities informed that 7 - 8 tonnes/day of municipal waste is being sent to Chandigarh for disposal while 2.5 - 3 tonnes/day is being disposed at the project site in landfill.
- iii. Project authorities informed that a discussion is ongoing with Bhabha Research Institute for setting up a waste-to-energy plant at project site.
- iv. Project authorities did not submit any six monthly compliance report or any document/information so far.
- v. Project authorities are required to suspend any land-filling activity until 'Consent to Establish' from SPCB is obtained as stipulated in Specific Condition I.
- vi. Project authorities are required to obtain needed permissions, undertake regular environment quality monitoring and actions as stipulated in the environment clearance.
- vii. Project are required to submit six monthly point-wise compliance reports of the conditions stipulated in environment clearance as stipulated in Condition XIII along with supporting documents as needed.
- viii. Project authorities are required to submit a time-bound plan for complying with conditions stipulated in the environment clearance and setting up of secured landfill.
- ix. Project authorities are required to constitute Environment Management Cell for effective implementation of stipulated environmental conditions as stipulated in Specific Condition XXXIII and General Condition II.
- x. Project authorities are required to provide a copy of Environment Management Plan as submitted to obtain the environment clearance.

Bhawna Singh

(Dr. Bhawna Singh)

Scientist D

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