

F.No.10-32/2012-IA.III
Government of India
Ministry of Environment, Forest & Climate Change
(IA.III Section)

Indira Paryavaran Bhawan
Jor Bagh Road
New Delhi -

Dated: 13th August, 201

To

The Chief Executive Officer,
Baddi Barotiwala Nalagarh Development Authority (BBNDA),
Baddi, District Solan, Himachal Pradesh

Sub: '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) - Environmental Clearance - Reg.

Sir,

This has reference to your letter dated 24.08.2012 and subsequent letter dated 22.11.2012, 16.02.2013 and 27.10.2014, submitting the above mentioned proposal to this Ministry for grant of Environment Clearance (EC) in term of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection), Act, 1986.

2. The proposal for **'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)** was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its meetings held on 20th - 21st December, 2012, 25 - 26th March, 2013, 19th - 21st September, 2013 and 19th - 21st May, 2015.

3. The details of the project, as per the documents submitted by the project proponents (PP), and also as informed during the above said EAC meetings, are reported to be as under:-

(ii) The project was accorded TOR vide letter no. F.No.10-32/2012-IA-III date 22.06.2012.

(iii) The project involves **'Integrated Municipal Solid Waste Management'** at Sy.No. 349/49/1/1 and 387/211 in Kinduwal Village, District Solan Baddi (Himachal Pradesh).

(iv) The project is proposed for 2 major urban settlements, Baddi Municipal Council, Nalagarh Council and 41 Gram Panchayats.

(v) The Population as per 2001 census is Baddi -22601. Nalagarh-9443 and Gram Panchayat-1,12,520 the population growth is very high.

(vi) The project is a category 'B' however, it is treated as category 'A' since it is located within 10 km from interstate boundary (Punjab and Haryana).

(vii) The proposed capacity is 40 TPD.

(viii) Total area of land is 2.42 ha at Kinduwal Village.

(ix) **Water bodies:** Nearest water bodies are Sirsa River 0.10 km on western side and Balad Nadi - 3km at SE.

- (x) Nearest forest area is Kohaidun Reserve forest -5 km at Western side. Nearest airport is Chandigarh airport at 40 km. The proposed site has been earmarked for CETP/MSW.
- (xi) The proposed facilities involve segregation certification of MSW, composting and Sanitary landfill. The components of the project are receiving facility where the waste is received and quantified, compost plant, recycling complex, secured landfill, and leachate collection facility.
- (xii) **Water requirement** is estimated at 10 KLD which will be met from ground water. This wastewater expected would be 16.13 KLD including 0.8 from domestic, 15 from composting leachate and 0.5 from sanitary landfill leachate. The leachate generated is proposed to be reused for maintaining moisture and temperature in composting.
- (xiii) The **power requirement** for the facility is 100 kVA and also RDF plant is proposed in the site for utilizing the energy from the waste.
- (xiv) An area of 33% will be earmarked for greenbelt along the boundary, roads, and in open places, etc.
- (xv) **Parking facility** for landfill vehicle parking and staff is provided in the facility.
- (xvi) **Investment/Cost:** The cost of the project is Rs. 970 lakhs.
- (xvii) There is no **court case** pending against the project.
- (xviii) **Public Hearing** was conducted on 13.08.2012 at the site. Public had welcomed the project.
- (xix) **Employment potential:** During construction 43 personnel are required and during operation 17, indirect employment will be 20 persons.
- (xx) **Benefits of the project:** Improvement in the physical infrastructure, it helps sustain the development of this area including further development of infrastructure facilities. People perceive that the project will in the long run help in the development of social infrastructure/such as: education facilities, banking facilities, post offices and communication facilities, medical facilities and others.
- (xxi) Since the existing site is very much in proximity of the river, site is not suitable for setting up of MSW facility hence deferred the project and suggested to consider an alternate site and submit the site selection criteria for the new site. The Project Proponent (PP) submitted revised layout by shifting about 30 m further away from Sirsa River and boundary is 110 m from river. As a precaution against flooding, an embankment of 100 m long with 6m height along the river is proposed.

4. The EAC, after detailed deliberation, in its meeting held on 19th - 21st May, 2015, recommended the project for grant of Environmental Clearance. As per the recommendations of EAC, the Ministry of Environment, Forest & Climate Change hereby accords Environmental Clearance for the above-mentioned 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)**, under the provisions of the Environment Impact Assessment Notification, 2006 and amendments thereto and circulars issued thereon and subject to the compliance of the following specific conditions, in addition to the general conditions mentioned below:

A. SPECIFIC CONDITIONS:

- (i) '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.

- (ii) 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.
- (iii) Guidelines of State Pollution Control Board (SPCB) for Common Hazardous Wastes Incinerators shall be followed.
- (iv) Incinerated ash shall be disposed at approved TSDF and MoU made in the regard shall be submitted to the Ministry prior to the commencement.
- (v) Periodical air quality monitoring in and around the site shall be carried out. The parameters shall include Dioxin and furans.
- (vi) Use only low sulphur diesel. No other oil shall be used.
- (vii) The proponent shall comply with the Environmental standards notified by the Ministry of Environment, Forest & Climate Change for incinerators along with the technology/guidelines.
- (viii) Necessary provision shall be made for firefighting facilities within the complex.
- (ix) The Project Proponent should carry out periodical air quality monitoring in and around the site including VOC, HC.
- (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.
- (xi) Treated flue gas emissions discharge through stack to atmosphere shall always be less than or equal to the parameter-specific emission standards notified by the CPCB.
- (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.
- (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.
- (xiv) Guidelines published by the Central Board from time to time for common incineration facilities shall be referred for implementation.
- (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.
- (xvi) The proponent should ensure that the project fulfills 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.

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- (xvii) The gas generated from the Landfill facility shall be collected and disposed as per rules.
- (xviii) The Leachate from the facility shall be collected and treated to meet the prescribed standards before disposal.
- (xix) The proponent should obtain necessary clearance from the Ground Water Authority.
- (xx) The depth of the land fill should be decided based on the ground water level at the site.
- (xxi) Project proponent should prepare and implement an On Site Emergency Management Plan.
- (xxii) Project proponent should carry out periodical ground water/ soil monitoring in and around the site to check the contamination.
- (xxiii) Project proponent should carry out periodical ground water/ soil monitoring in and around the site to check the contamination including TCLP test for heavy metals.
- (xxiv) 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.
- (xxv) All measures for air pollution control shall be adopted.
- (xxvi) Rain water runoff from the landfill area and other hazardous waste management area shall be collected and diverted to the leachate treatment plant.
- (xxvii) There should not be any spillage from the transportation vehicles.
- (xxviii) The width of all internal roads should be 9.0 meters. The entry and exit point should be at different location.
- (xxix) Zero discharge system shall be adopted.
- (xxx) Double containment system shall be provided for all waste transport vehicles to avoid spillage. The spillage shall be cleared immediately.
- (xxxi) Vehicles should prominently display complaint numbers for use of public as well as antidotes to any toxic waste.
- (xxxii) All the recommendations 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.
- (xxxiii) The project proponent will set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (xxxiv) Untreated domestic effluent should not be discharged into open drain. Till the sewerage system in the Industrial Estate, which is presently being laid, is completed, the domestic effluent should be treated in a well-designed septic tank with soak 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.

- (xxxv) The responses/commitments made to the issues raised during public hearing shall be complied with in letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.
- (xxxvi) The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.

B. General Conditions:

- (i) The project proponent should set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (ii) The project proponent should extend full support to the officers of the 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.
- (iii) 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.
- (iv) In the event of a change in project profile or change in the implementing agency, a fresh clearance shall be obtained from the Ministry of Environment, Forest & Climate Change.
- (v) 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.
- (vi) The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.
- (vii) A copy of the environmental clearance letter 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 Office/ Tehsildar's office for 30 days.
- (viii) 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.

5. 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.

6. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Fore

Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

7. 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.
8. 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.
9. 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.
10. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.
11. 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.
12. 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.
13. 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.
14. 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 e-mail.


13/8/2015
(S.K. Srivastava)
Scientist E

Copy to: -

- (i) The Secretary, Department of Environment, Government of Himachal Pradesh

- (ii) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cun Office Complex, East Arjun Nagar, Delhi - 32
- (iii) The Member Secretary, Himachal Pradesh Pollution Control Board, HP SCS &E, 34, SDA Complex, Kusumpati, Shimla -9
- (iv) Additional Principal Chief Conservator of Forests (C), Ministry of Environment Forest and Climate Change, Regional Office, Pearson Road, FRI Campus, Ne Forest, Dehradun - 6
- (v) IA - Division, Monitoring Cell, MOEFCC, New Delhi - 3
- (vi) Guard file

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13/8/201

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