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STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY (SEIAA), ODISHA

{ Constituted vide order No. S.O. 1899 (E) Date 17th August, 2012

Ministry of Environment & Forest, Govt. of India, Under Environment Protection Act, 1986.}

Qr. No. 5RF-2/1, Unit - IX, Bhubaneswar - 751022

Tele / Fax : 0674 - 2540669, E-mail : seiaaorissa@gmail.com

Ref. No. 2927/SEIAA

DL 20.02.2015

From

Shri S. B. Samant, IFS
Member Secretary,
State Environment Impact Assessment Authority, (SEIAA)
Odisha, Bhubaneswar

To

The Municipal commissioner
Berhampur Municipal Corporation
Dist-Ganjam

Sub: Environmental Clearance for proposed Integrated solid waste management project over an area of 33.62 acres located at Village-Mohuda, Tahasil-Kukudakhandi, District-Berhampur, Odisha of Berhampur Municipal Corporation.

Pw.D

Sir,

This has reference to your application no. 12294 dated 27.11.2014 seeking environmental clearances for the above project under EIA Notification 2006. The proposal has been appraised as per the provisions under the EIA Notification 2006 and on the basis of the documents enclosed with the application and clarifications furnished in response to the observation of the State Expert Appraisal Committee, Odisha.

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Berhampur Municipal Corporation has proposed Integrated solid waste management project for processing 150 TPD of mixed Municipal Solid Waste over an area of 33.62 acres located at Village-Mohuda, Tahasil- Kukudakhandi, District- Berhampur, Odisha. . This work has been awarded to the company "UPL Environmental Engineer Limited", Mumbai having two decades of experience in similar job. The project site will have the facility of receiving, segregation and processing of municipal solid waste resulting in substantial reduction in the quantity of waste, reduction in greenhouse gas emission and generation of value addition products. The project is designed for 20 years. The proposed system comprises of three components i.e. i) Primary waste collection ii) Secondary

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waste storage and iii) Treatment/disposal. Primary collection shall involve door-to-door collection service, provision of tricycles and auto tipper, compaction etc. In this system the compacted waste shall be transported to the disposal site where the compacted waste will be stored and de-compacted. The waste will be segregated inert waste will go for land filling, recyclable waste will be sent to recyclers and the biodegradable waste will be sent for composting. The windrows composting method will be used and in this method, the waste will be turned every 4 days over a period of 28 days operations. The waste from windrow platform will be kept in the curing section for 14 days for further stabilization and moisture control. Additives like micronutrients may be added to improve the quality of the final product. The compost thus produced will be packed in bags. The entire process is carried out under covered/ closed shed in order to have least impact on the surroundings. Post closure of the landfill will have green cover. UPLEEL has engaged M/s Global Expert a NABET Accredited Consultant for carrying out the Environmental Impact Assessment (EIA) study.

EIA has been carried out for two phases i.e. construction phase (impact in this phase is temporary in nature) and operation phase. The vehicular movement for transportation of waste and construction equipment will create dust nuisance, air pollution due to emission of SO₂, NO_x etc., noise pollution and littering of waste while transportation. Another major issue is odour and paste nuisance. To prevent dust and odour nuisance, optimized sprinkling of water, use of herbicide, mist sprays, daily cover, green belt development etc. will be done. As there is no surface water body nearby, the entire operation shall be done under covered shed and the land fill will be provided with HDPE lining where there will be no chance of surface and ground water contamination. Domestic waste water and leachate collected from storage dump will be treated and the treated water will be used for sprinkling. The site is in non-forest area. After exhaustion of the capacity, the site shall be closed and properly rehabilitated. The company will spend 1% of the project cost amounting to Rs. 35 lakhs towards peripheral development of the area as a part of its CSR activity. The SEAC issued TOR vide letter No. 1543 dt. 05.09.2013 for EIA study. Public hearing for the project was conducted on 04.09.2014.

The consultant M/s Global Experts, Bhubaneswar made a detailed presentation before the SEAC. The committee observed that the public hearing meeting mostly raised objection on environmental issues due to the proposed integrated solid waste management project. The public raised objection that the area earmarked for integrated solid waste management plant is mostly agriculture cattle grazing. The committee also observed that the public in the public hearing meeting has pointed out that there is a court case pending before the Hon'ble High Court of Odisha on the land proposed for integrated solid waste management plant. The commissioner, Berhampur Municipal Corporation who was present in the meeting intimated that the land is mostly barren land and away from human habitations. She has also intimated that the land belongs to Govt. of



Odisha and has already been handed over to BMC but local Sarpanch along with other few people have registered a petition at Hon'ble High Court raising objection for establishment of MSW scientific landfill system which is pending with Hon'ble High Court Odisha. The Hon'ble High Court, Odisha has not passed any interim order in the matter. They have already put their stand before Hon'ble Court, the matter will be settled shortly. However, the committee felt that the case can be considered strictly on merit of the case. The committee also opined that this type of project should be encouraged to facilitate disposal of municipal solid waste in a common area instead of throwing the waste haphazardly in many places.

Considering the information/documents furnished and additional clarifications provided during presentation made by the consultant M/s Global Experts, Bhubaneswar on behalf of the project proponent, the State Expert Appraisal Committee (SEAC) after due considerations of the relevant documents submitted by the project proponent and clarification/documents furnished to it have recommended the project for Environmental Clearance with certain stipulations. The State Environment Impact Assessment Authority (SEIAA) after considering the proposal and recommendations of SEAC, Odisha hereby accords Environmental Clearance in favour of the project for a period of 5 (five) years under the provisions of EIA Notification 2006 and 2009 and subsequent amendments thereto under various MoEF, Govt. of India circulars subject to strict compliance of the terms and conditions as follows.

Stipulated Conditions:-

- 1) The proponent shall abide by the decision of Hon'ble High Court, Odisha.
- 2) The applicant (Project Proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management, as mentioned by him in Form I, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.
- 3) The applicant will take statutory clearance /approval /permissions from the concerned authorities in respect of his project as and when required.
- 4) The applicant will comply to the points, concerns and issues raised by the people during public hearing on 04.9.2014 in accordance with the commitments made by him thereon.
- 5) For applicant will submit half- yearly compliance report on post -environmental monitoring in respect of the stipulated terms and conditions in the Environmental Clearance to the State Environmental Assessment Authority (SEIAA) ,Odisha , SPCB & Regional Office of the Ministry of Environment & Forest, Odisha on 1st June and 1st December of each Calendar Year.
- 6) "Consent to Establish" shall be obtained from State Pollution Control Committee under Air and Water Act and a copy shall be submitted to the SEIAA, Odisha before start of any construction work at the site.



- 7) The proponent shall ensure that the project fulfills all the provisions of Municipal Solid Wastes (Management and Handling) Rules, 2000 including collection and transportation design etc.
- 8) The gas generated from the Landfill facility shall be collected and disposed /utilized as per rules.
- 9) The Leachate from the facility shall be collected and treated to meet the prescribed standards before disposal.
- 10) The proponent shall obtain necessary clearance from the Ground Water Authority for the use of ground water.
- 11) No development zone around the 500m radius landfill site will be incorporated in the Town Planning Department's land use plans.
- 12) Landfill site should have boundary wall all around with proper gate to prevent entry of unauthorized persons and stray animals. Other than this the SLF will have three emergency exit gate and three security watch tower.
- 13) Liner system High Density Polyethylene (HDPE) geo-membrane or equivalent) should be provided to prevent the intrusion of leachate from the landfill.
- 14) Nepheline Syenite ($\text{Na-K-Al}_2\text{O}_3 \text{ SiO}_2$) ore powder ($<100 \mu$ particles) around 5-10% shall be mixed during composting organic matter to improve the following.
 - a. To reduce organic acid as leachant
 - b. To improve the nutrients of potassium
 - c. To reduce the generation of methane gas
- 15) An On Site Emergency Management Plan shall be prepared and implemented.
- 16) Post closure of the landfill shall have green cover.
- 17) Periodical ground water /soil monitoring to check the contamination in and around the site shall be carried out.
- 18) To minimize odour and aesthetic it should be ensured that the waste should be directly unloaded to compactors. The air contained in the complex should be suitably treated and perfumes should be sprayed with before letting out in the atmosphere.
- 19) No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up /operation of activity.
- 20) Regular monitoring of ground water in and around the dump site area shall be carried out, records maintained and half yearly reports shall be furnished to the SEIAA, Odisha.
- 21) A green belt of adequate width and density preferably with local species along the periphery of the plant & alongside roads etc shall be raised so as to provide protection against particulates and noise First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- 22) Provision shall be made for housing of construction labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile




toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

- 23) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- 24) Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported.
- 25) The need of the local people should be appropriately addressed in the CSR activities to be undertaken by the project proponent in the area. An action plan in this regard should be prepared and submitted to SEIAA, Odisha.
- 26) The Project Proponent should ensure advertising in at least two local newspapers widely circulated in the region, one of which shall be in vernacular language informing the Public that, the project has been accorded environment clearance and copies of the clearance letters are available with SEIAA, Odisha and the Odisha State Pollution Control Board (OSPCB) and may also be seen on the website of the board. The advertisement shall be made within 7 (seven) days from the date of issue of the environmental clearance & a copy of the same should be forwarded to the Regional office of MoEF, Bhubaneswar.
- 27) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad and the Local NGO, if any, from whom suggestions /representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the proponent.
- 28) The proponent shall upload the status of compliance of the stipulated environmental clearance 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 MoEF, SEIAA, Odisha, the respective Zonal Office of CPCB and the SPCB.
- 29) The environment 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.
- 30) 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 the year 2004 as may be applicable to this project.
- 31) Any appeal against this environmental 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.

The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment Protection (EP) Act, 1986.


Yours faithfully,


16.2.15
Member Secretary

Memo No 2928/SEIAA /Dt. 20.02.2015

Copy to

1. Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for kind information.
2. Principal Secretary, Forests & Environment Dept., Government of Odisha for kind information.
3. Chairman, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for kind information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for kind information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for kind information.
6. Collector & District Magistrate, Ganjam for kind information and necessary action.
7. Chairman/Member/ Member Secretary, SEIAA for kind information.
8. Chairman, SEAC/Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
9. Guard file for record.


16.2.15
Member Secretary