State Level Environment Impact Assessment Authority, Uttar Pradesh

Directorate of Environment, U.P.
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To,

Shri Amnoj Kumar Shivhare,
266A/22, Ramlila Road,
Bakarganj, Banda, U.P.- 210001

Ref. No.....507...../Parya/SEAC/4647-5318/2019 Date: 07 February, 2020

Sub: Environmental Clearance for "Common Bio-Medical Treatment Facility (CBWTF) at Gata No. 474, Mauja Mohanpurwa, Jignoda Road, District- Banda, U.P., M/s Bamdev Smart Solutions Pvt. Ltd.

Dear Sir,

Please refer to your application/letters 25-01-2019, 14-02-2019, 24-08-2019, 29-09-2019, 31-10-2019,11-12-2019 & 16-12-2019 addressed to the Chairman/Secretary, State Level Environment Impact Assessment Authority (SEIAA) and Director, Directorate of Environment Govt. of UP on the subject as above. The State Level Expert Appraisal Committee considered the matter in its meetings held on dated 08-01-2020 and SEIAA in its meeting dated 30/01/2020.

A presentation was made by the project proponent along with their consultant M/s Ind Tech House Consult. The proponent, through the documents submitted and the presentation made, informed the committee that:-

1. The environmental clearance is sought for "Common Bio-Medical Treatment Facility (CBWTF) at Gata No. 474, Mauja Mohanpurwa, Jignoda Road, District- Banda, U.P., M/s Bamdev Smart Solutions Pvt. Ltd.
2. Terms of reference in the matter were issued by SEIAA, U.P. vide letter no. 107/Parya/SEAC/4647/2018, dated 13/06/2019.
3. Public hearing was conducted on 25th of November 2019 at Tehsil-Sabhagaar, Banda. EIA report submitted by the project proponent on 11/12/2019.
4. The project proposed to be developed in an area of 1.126 acres (approx 4572.9 sqm).
5. The components in the project will have one rotary kiln incinerator of capacity 250 kg/hr, one fixed hearth incinerator of 250 kg/hr capacity as standby, two autoclaves having capacity of 250 l/hr each (500 l/hr in total) and two shredders having capacity of 250 kg/hr each (500 kg/hr in total).
6. The project will cater health care establishment from the district of Banda and its four neighboring districts viz. Mahoba, Hamirpur, Chitrakoot and Fatehpur.
7. Technical details of the project:

Sl	Component	Description
1	Land Area	1.126 acres (approx. 4572.9 sqm)
2	Address	Gata No. 474 Mauja Mohanpurwa, Jignoda Road Banda-210001
3	Land Type	Agricultural use
4	Land Acquisition Status	Acquired
5	Conversion of Land Use	CLU Obtained from Agricultural to Commercial
6	Accessibility	Metaled road (Achharound Tigadda road) connecting to NH27 (New)/NH 76 (old) at about 5.5 km

7	Distance from nearest habitation	More than 1.5 km (nearest village – Mohan Purwa in the East)
8	Other similar facility nearby	Not within 75 km from this site
9	Surface water body	Major surface water body is Ken river flowing at a distance of about 5.1 km in the east
10	Tree cutting	No tree cutting envisaged

8. Incinerators details:
- Two incinerators of 250 kg/hr has been proposed for this project.
- One incinerator is of rotary kiln and will be the main incinerator.
- Second incinerator is of fixed hearth incinerator and will be used as back up for operations during emergency breakdown of the rotary kiln incinerator or during the time of maintenance.

9. 4 Number of vehicles will be designed for collection and transportation of waste.

10. Water requirement details:

Usage	Source	Qty of water, KLD	Effluent generation, KLD	Treatment
Domestic requirement	Fresh	1	0.9	ETP
Floor Washing	Fresh	0.5	0.1	ETP
Quencher and Scrubber	Recycled	1.4	1.25	ETP
Autoclave	Fresh	1	0.9	ETP
Vehicle Cleaning	Recycled	1	0.9	ETP
Landscaping	Recycled	1.4	0	--
Total Water Required				6.3 kld
Total Fresh Water Required				2.5 kld
Process Loss				0.85 kld
Total Effluent generated				4.05 kld
ETP Proposed				5 kld
Treated Effluent obtained				3.84 kld
Reuse of treated effluent				3.8 kld
Discharge				0
• Source of water : ground water				

11. Power requirement details:
- 70 KW power connection will be required for this project
- Source Dakshinanchal Vidyut Vitaran Nigam Ltd.
- Back up- DG Set of 82 KVA capacity as standby.

12. The project proposal falls under category--7(da) of EIA Notification, 2006 (as amended).

Based on the recommendations of the State Level Expert Appraisal Committee Meeting (SEAC) held on 08-01-2020 the State Level Environment Impact Assessment Authority (SEIAA) in its Meeting held 30-01-2020 and decided to grant the Environmental Clearance for proposed project along with subject to the effective implementation of the following general & specific conditions:-

General Conditions:

1. PP will take prior permission of UPPCB for establishing CBWTF at the site in reference to revised guidelines of CPCB-2016 for CBWTF before installation.
2. PP must ensure before starting operation to resolve all issues raised in the public hearing as per the revised guidelines issued by the CPCB on 21/12/2016 (revised guidelines for common bio medical waste treatment and disposal facilities-chapert-6B). According to the guidelines, UPPCB should resolve the complaints from the public received during the public hearing. If they are not able to resolve the issues then the matter is referred to CPCB for final decision.
3. Guidelines of CPCB/UPPCB for Bio-Medical Waste Common Hazardous Wastes Incinerators shall be followed.
4. All safety measures will be strictly followed by workers for handling of Bio medical waste bags during storage and feeding at incinerator to prevent health hazards.

5. PP should carryout periodical air quality monitoring in and around the site including VOC, HC.
6. PP shall ensure to conduct quarterly health check up of workers working in the plant.
7. PP will construct garland drain of appropriate size and settling tank with stone pitching all around the plant premises.
8. PP should develop 8 m green belt all along the periphery of the species that are significant and used for the pollution abatement.
9. Incineration plants shall be operated (combustion chambers) with such temperance, retention time and turbulence, so as to achieve Total Organic Carbon (TOC) content in the slag and bottom ashes less than 3%, or their loss on ignition is less than 5% of the dry weight of the material.
10. Transportation and handling of Bio-medical Wastes shall be as per the Biomedical Wastes (Management and Handling) Rules, 2000 (as amended) including the section 129 to 137 of Central Motor Vehicle Rules, 1989.
11. The proponent should ensure that the project fulfills all the provisions of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 (as amended) including collection and transportation design etc and also guidelines for Common Hazardous Waste Incineration - 2005, issued by CPCB.
12. Ecosorb (organic and biodegradable chemical) and alumina will be used around. Odor generation areas at regular intervals for dilution of odorant by odor counteraction or neutralize.
13. The entire area should be covered with 03 meters MS sheets and due care should be taken for noise and vibration control during demolition work.
14. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.
15. Monitoring of the stack gaseous emissions (under optimum capacity of the incinerator) will be done once in three months through a laboratory approved under the EPA, 1986/NABL and record of such analysis results shall be maintained and submitted to the prescribed authority. In case of dioxins and furans, monitoring will be done once in a year.
16. Ventury scrubber with mist eliminator, beg filter, multicyclone and dust collector shall be provided as air pollution control equipment.
17. Magnetic flow meters shall be provided at the inlet/outlet of water supply point and records for the same shall be maintained and submitted to UPPCB regularly.
18. The PP should comply with the provisions made in Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules, 2016 and Bio-Medical Waste (Management and Handling) Rules, 2016 (as amended).
19. Dedicated parking facility for unloading of materials/wastes shall be provided in the facility premises. PP shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
20. The overall noise level in and around the facility area and D.G. set shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under the Environment (Protection) Act, 1986 & Rules.

Specific Conditions:

1. Directions/suggestions given during public hearing and commitment made by the project proponent should be strictly complied.
2. The unit shall strictly comply with the CPCB guidelines for setting up the Common Bio-Medical Waste Treatment Facility (CBWTF).
3. Proponent shall strictly comply the design criteria for incinerator, autoclave, shedder and all other requirements including bar-coding etc. as per the CPCB guidelines.
4. The unit shall strictly ensure mercury waste management at health care facility as per the CPCB

guidelines.

5. The unit shall establish Standard Operating Procedure for waste collection, handling transportation, treatment and disposal as per Biomedical Waste Management Rules 2016.
6. Zero Liquid Discharge (ZLD) status shall be maintained all the time.
7. The project proponent shall comply with the Environmental standards notified by MoEF&CC for incinerators along with the technology/guidelines.
8. The project proponent shall submit the schedule for training of various categories of employee involved in Bio-medical waste management at various levels of Bio-medical waste handling and treatment at Bio-Medical treatment facility within next 3 months to SEIAA U.P.
9. Authorization from UPPCB under Bio-medical waste (Management and Handling) rule, 2016 shall be obtained.
10. The unit shall develop 33% of plot area as a green belt within premises as per the CPCB guidelines.
11. The project proponent shall obtain the forest clearance and permission of Central and State Government as per law under the provisions of Forest (conservation) Act, 1980 before the start of work.
12. Term card and symbols of hazardous are to be posted on the transport vehicles.
13. ESH unit is to be established.
14. PP should install adequate ETP for treatment and disposal of effluent and Zero discharge should be maintained.
15. Process effluent any waste water should not be allowed to mix with storm water.
16. No landfill site is allowed within the CBWTF site.
17. PP will ensure to use only non-chlorinated bags for handling and storing bio medical waste. In any case, PP is not allowed to use poly and plastic bags.
18. Incinerator should be property interlocked with venture scrubber to control air pollution.
19. Incinerated ash and ETP sludge shall be disposed at approved TSDF and MoU made in this regard shall be submitted to the UPSEIAA prior to commencement.
20. Color coding for handling waste be strictly followed as per BMW Rules 2016.
21. PP will install continuous online monitoring system to monitor the emissions from the stack. Periodical air quality monitoring in and around the site shall be carried out. The parameters shall include Dioxin and furan.
22. Proper Parking facility should be provided for employees & transport used for collection & disposal of waste materials.
23. Necessary provision shall be made for firefighting facilities within the complex.
24. The Leachate from the facility shall be collected and treated to meet the prescribed standards before disposal.
25. PP should ensure installation of photovoltaic cells (solar energy) for lighting in common areas, LED light fixtures, and other energy efficient plant machineries and equipments.
26. The containers should be covered during transportation in order to prevent exposure of public to odors and contamination.
27. PP should have two storage rooms separately for treated and untreated waste.
28. PP should ensure the traffic movement plan, parking facilities and road width.
29. PP should develop green belt at least minimum of 33% in plant premises as per CPCB guidelines with native species/pollution absorbing species.
30. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
31. For dust suppression, regular sprinkling of water should be undertaken.
32. PP will obtain other necessary clearances/NOC from respective authorities.
33. As proposed, the domestic waste water shall be treated in septic tank and soak pit system whereas industrial waste water shall be treated in ETP/STP with provision of tertiary system. Recycling of treated water shall be ensured to maintain zero discharge conditions.
34. No effluent from the facility shall be discharged outside the premises and Zero discharge shall be

maintained. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum OSX zoom and data connectivity must be provided to the UPPCB server for remote operations.

35. Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. The ground water quality monitoring shall be monitored as per the UPPCB norms. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Bhopal and UPPCB.
36. On line continuous monitoring system shall also be installed to monitor the stack emission and data connectivity must be provided to the UPPCB server for remote operations.
37. The height of the stack shall be not less than 35 mtrs.
38. Only low Sulphur fuel like Light Diesel Oil or Low Sulphur Heavy Stock or Diesel, Compressed Natural Gas, Liquefied Natural Gas or Liquefied Petroleum Gas shall be used as fuel in the incinerator.
39. Combustion gas analyzer to measure CO_2, CO and O_2 should be installed.
40. Internal roads will be concerted/asphalted to reduce dust emissions.
41. PP shall ensure that 02 additional vehicle shall be available all the time in addition to the required number of vehicle for collection and transportation of bio medical waste.
42. PP shall ensure that bio medical waste shall be treated completely within 48 hrs from the time of collection. All conditions and guidelines lay down by CPCB and BMW Act, 2016 shall be complied.
43. No hazardous waste should be disposed off in this facility.
44. The PP shall be developed green belt within plant premises with at least 5 meter wide green belt on all sides along the periphery of the project area and along road sides etc. Selection of plant species shall be as per the CPCB guidelines and in consultation with the DFO.
45. All the commitments made in the public hearing shall be implemented by PP.
46. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
47. In case of power failure, stand by D.G. Sets having power generation capacity equivalent to the requirement of power to run the facility shall be installed, so that the facility shall always be operated round the clock even in case of power failure.
48. For avoiding vehicle congestion/traffic jam within facility premises or outside road proper turning and parking space is provided. Also all internal roads shall be made pucca/bituminous top to avoid fugitive emissions.
49. All recommendations and pollution mitigative measures proposed in the EMP shall be binding for the project authorities.
50. Pucca flooring/impervious layer shall be provided in the work areas, chemical/waste oil storage areas and chemical handling areas to minimize soil contamination.
51. Good housekeeping shall be maintained within the facility premises. All pipes, valves and drains shall be leak proof. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly. Floor washing shall be admitted in to the effluent collection system for subsequent treatment and disposal.
52. The storm water drains shall be kept separate and shall remain dry throughout the year except monsoon.
53. CER activity should be proposed for next 10 years in different activities and should be implemented through respective committees.
54. The environmental policy with Environmental Management Cell as per MoEF guideline will be prepared by PP and the with suitably qualified staff for implementation of the stipulated environmental safeguards and for monitoring functions shall be setup under the control of the Chief Executive of the company.
55. As proposed, the green belt development/plantation activities should be completed within the first three years of the project.
56. In case of any, change in scope of work, technology, modernization and enhancement of

capacity/built-up area/project area shall again require prior environmental clearance as per EIA Notification, 2006.

57. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
58. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/built-up area/project area, addition with change in process and or technology and any change in product – mix in proposed mining unit shall require a fresh Environment Clearance.
59. PP shall comply all conditions stipulated in
60. The facilities for collection, segregation, handling, on site storage and processing of solid waste shall be provided and maintained properly. The collected solid waste shall be segregated at site. Biodegradable waste shall be treated in biogas plant and Non Biodegradable/recyclable solid waste shall be sold out to the authorized vendor's recyclers. The inert solid waste shall be sent to concerned collection Center of integrated municipal solid management facility of the area.
61. The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and import of Hazardous Chemicals Rules, 1989(as amended) and Hazardous Waste (Management and Handling) Rules, 2016, (as amended) from time to time. Hazardous/Solid Wastes generated during construction and operation phases should be disposed off as prescribed under law. Necessary clearances in this regard shall be obtained.
62. E-waste should be disposed off as per rules applicable and with the necessary approval of the UP Pollution control Board.
63. The project proponent will ensure that proper dust control arrangements are made during the construction and proper display system is to be installed at the site to inform the public about the steps taken to control air pollution as per the Construction and Demolition Waste Management Rules.
64. Consent to establishment/operate shall be obtained from UPPCB.
65. The project proponent shall submit within the next 3 months the details on quantification of year wise CER activities along with cost and other details. CER activities must not be less than 2% of the project cost. The CER activities should be related to mitigation of Environmental Pollution and awareness for the same.
66. A 2% of the total project cost Corporate Environmental Responsibility (CER) plan along with budgetary provision shall be prepared phase wise and approved by Board of Directors of the company. A copy of resolution as above shall be submitted to the authority. A list of beneficiaries with their mobile nos./address should be submitted alongwith photographs. No parking shall be allowed outside the project boundary.
67. The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of fire fighting equipments etc. as per National Building Code including measures from lighting.
68. Any hazardous waste generated during construction/operation phase should be disposed off as per applicable rules and norms with necessary approvals of the UP Pollution Control Board.
69. The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.
70. Bio medical waste management shall be followed as per The Bio-Medical Waste (Management and Handling) Rules, 2016. Special attention to be given for Mercury waste management and disposal. Authorization certificate is to be obtained from Pollution Board and you cannot hold bio medical waste more than 24 hours.
71. Necessary permissions should be sought for use and safe disposal of radioactive materials. Procedural protocol prescribed by competent authority should be followed for the same.
72. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise

level during construction phase, so as to conform to the stipulated standards by CPCB/UPPCB.

73. The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential area. The open spaces inside the plot should be landscaped and covered with grass and shrubs. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
74. NOC from Ground Water Board is to be obtained for drilling of tube well for use of Water Supply, if any.
75. This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any.

Concealing factual data and information or submission of false/fabricated data and failure to comply with any of the conditions stipulated in the Prior Environmental Clearance attract action under the provision of Environmental (Protection) Act, 1986.

This Environmental Clearance is subject to ownership of the site by the project proponents in confirmation with approved Master Plan for Banda. In case of violation; it would not be effective and would automatically be stand cancelled.

The project proponent has to ensure that the proposed site in not a part of any no-development zone as required/prescribed/indentified under law. In case of the violation this permission shall automatically deemed to be cancelled. Also, in the event of any dispute on ownership or land use of the proposed site, this Clearance shall automatically deemed to be cancelled.

Further project proponent has to submit the regular 6 monthly compliance report regarding general & specific conditions as specified in the E.C. letter and comply the provision of EIA notification 2006 (as Amended).

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 EIA Notification, 2006 including the amendments and rules made thereafter.

(Ashish Tiwari)
Member Secretary, SEIAA

No..... /Parya/SEAC/4647-5318/2019 Dated: As above

Copy with enclosure for Information and necessary action to:

1. The Principal Secretary, Department of Environment, Govt. of Uttar Pradesh, Lucknow.
2. Advisor, IA Division, Ministry of Environment, Forests & Climate Change, Govt. of India, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi.
3. Additional Director, Regional Office, Ministry of Environment & Forests, (Central Region), Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, Lucknow.
4. District Magistrate Banda.
5. The Member Secretary, U.P. Pollution Control Board, TC-12V, Paryavaran Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow.
6. Copy to Web Master/ guard file.

(Ashish Tiwari)
Member Secretary, SEIAA