State Environment Impact Assessment Authority, M.P.
(Government of India, Ministry of Environment, Forest & Climate Change)

Environmental Planning Coordination Organization (EPCO)
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No: 1530 /SEIAA/2018
Date: 18.10.18

To,
Mr. Shardul Shah,Director
M/s India Waste Management PVT LTD
30 MIG MLA Quarters Bhadbhada Road
T.T. Nagar Bhopal (M.P) - 462003

Sub:- Case No.5496/2017: Prior Environmental for Common Bio Medical Waste Treatment Facility (CBWTF) of M/s India Waste Management Pvt Ltd at E3 – New Industrial Area No. – II Mandideep Village Mandideep Tehsil - Goharganj, District – Raisen (M.P)Total plot area- 20006.669 sq m. by Director, Shardul Shah M/s India Waste Management PVT LTD 30 MIG MLA Quarters Bhadbhada Road T.T. Nagar Bhopal (M.P) - 462003 Mob; 7566723583 email:indiawmgt@gmail.com Envt. Consultant: Gaurang Environmental Solutions, Jaipur

Ref: Your application dtd. 29.07.16 received in SEIAA office on 11.01.2017

With reference to above, the proposal has been appraised as per prescribed procedure & provisions under the EIA notification issued by the Ministry of Environment & Forests vide S.O.1533(E), dtd. 14.09.06 & its amendments, on the basis of the mandatory documents enclosed with the application viz., Form I, pre-feasibility report, ToR, EIA Report, PPT and additional clarifications furnished in response observations by the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

(i) The proposed project is Common Bio-medical Waste Treatment facility located at Village Mandideep Tehsil - Goharganj, District – Raisen (M.P) for treatment of Bio Medical Waste collected from the various health care establishments/unit of the area of Raisen, Hoshangabad, Betul & Bhopal. The Facility includes Incinerator, Autoclave, Shredder, Boiler and Effluent Treatment Plant.

(ii) The proposed capacity 500 kg per hour rotary kiln based bio medical incineration includes: .

a. Incinerator – 02 - 500 Kg/hr(250 Kg/hr Each)
b. Autoclave - 04 - 200kg/hr(50kg/hr Each)
c. Shredder - 04 - 400 Kg/hr(100 Kg/hr Each)
d. Boiler - 02 - 2000 kg/hr (1000kg/hr Each)
e. Effluent Treatment Plant - 01 - 300 KLD

(iii) The proposed project is for setting up of common bio-medical waste treatment facility and project falls under Category "B" Projects of activity 7 (da) as per EIA Notification dated 14th September, 2006 and its subsequent amendments dated 17th April 2015, under Bio- Medical Waste Treatment Facilities.

(iv) The project site is located industrial plot of M. P. Audyogik Kendra Vikas Nigam Mandideep (M.P. AKVN). There is no National park / Sanctuaries, Eco-sensitive areas, critically polluted areas and inter-State boundaries within 10 km of the proposed site; hence general conditions are not attracted as per EIA Notification 2006 its amendments.

(v) The project is located in notified Industrial area Mandideep Dist Raisen, hence as per GoI, MoEF OM dtd 10.12.14 Public hearing is exempted.

(vi) Consent to establishment (CTE) for aforesaid CBWTF was granted by MP Pollution Control Board vide letter dated 07.07.2016.

(vii) The project is being establishing a phase wise Integrated Common Bio Medical Waste Treatment and Disposal Facility with following treatment capacity:

Phase – 1:

- Incineration capacity: 1642.5 MT per year.
- Autoclaving capacity: 657 MT per year.
- Incinerator of capacity 250 kg/hr.
- 2 Autoclaves of capacity 50 kg/hr each.
- 2 Shredders of capacity 100 kg/hr each.
- ETP of 200 KLD treating capacity.
- Associated Utilities & Amenities.

Phase – 2:

- Laundry equipment with a capacity of 4000 kg/day.
- Boiler for the laundry.
- Associated Utilities & Amenities.

Phase – 3:

- Laundry of capacity 3000 kg/day.
- Boiler for the laundry.
- Associated Utilities & Amenities.

Phase – 4:

- Laundry of capacity 3000 kg/day with a total capacity of 10000 kg/day (Including Phase – 2, 3 and 4)
- Boiler.
- Associated Utilities & Amenities

Phase – 5:

- Incinerator of capacity 250 kg/hr.making total incineration capacity as 3285 MT per year including phase I and V.
- 2 Autoclaves of capacity 50 kg/hr each making autoclaving capacity 1314 MT per year
- 2 Shredders of capacity 100 kg/hr each
- Additional 100 KLD ETP making total capacity of 300 KLD including phase I and V.
- Associated Utilities & Amenities

(viii) The project site is industrial plot having an area of 2.0006 ha. land is on lease by M. P. Audyogik Kendra Vikas Nigam Mandideep (M.P. AKVN) to M/s India Waste Management Pvt. Ltd. out of which only 7220.88 Sq.M will be utilized for Proposed Project. PP has submitted amended lease agreement dtd. 21.12.16 which is executed between Rajnish Vyas, MPAKVN Bhopal and M/s India Waste Management Pvt. Ltd. For 30 years.

(ix) The total water requirement for proposed facility is 260KLD.The water supply source is AKVN. PP has submitted NOC from the AKVN dtd. 22.02.18 regarding water supply for the project.

Phase – 1	75 KLD/ day	(72 KLD Floor/ vehicle washing, container washing, laundry, incinerator etc. 3 KLD for domestic purposes)
Phase – 2	44 KLD/ day	Total – 119 KLD per day
Phase – 3	33 KLD/ day	Total – 152 KLD per day

Phase – 4	33 KLD/ day	Total – 185 KLD per day
Phase – 5	75 KLD/ day	Total – 260 KLD per day

(x) Approximately 200 KLD water effluents shall be generated from all sources such as Laundry, Floor Washing, Vehicle/ Container Washing etc. and the same shall be treated in ETP and after treatment the treated water shall be recycled and reused Waste water generated during the CBWTF's operation will be reused in vehicle washing/ for irrigation in green belt.

(xi) PP has proposed 2 separate ETP for Laundry & incinerator with 300 KLD (100+200) where the available treated water will be separately 100 % reutilized in process & landscaping purposes without using of ME and RO. No treated wastewater shall be let out of the premises of the CBWTF.

(xii) The odor management is one the issue in CBWTF. PP has proposed the mitigation measures to minimize and control odor are as follows.

a. Wash waste collecting vehicles, containers and store rooms frequently.
b. Treatment of bio-medical wastes within 48 hours.
c. Closed cabin vehicles shall be used for the collection and transportation of bio-medical wastes.
d. Mask shall be provided to workers to avoid health issues due to odour.
e. Enough green belt will be developed

(xiii) The expected air pollution sources are DG set, Incinerator, Boiler and Line sources from vehicular emissions. For control of air pollution PP has proposed following :-

S. No.	Source	Nos.	Capacity	Fuel consumption	Stack height
1.	Incinerator	2	250 kg/hr each	125 l/hr each	30 m
2.	DG sets	1	500 kVA	80 l/hr	3.5 m
3.	Boilers	2	1000 kg/hr each	65 l/hr each	11 m

- Effective stack height (as per the norms of CPCB) will be provided.
- Low sulphur content fuel (HSD) will be used to contain the emissions within the permissible norms.
- Effective Air Pollution Control Devices* will be installed to contain the emissions within the permissible standards.
- DG sets will be used in case of power cuts/ failures only and in no case the unit will depend on DG sets as main source of power.
- PUC certified vehicles will be used.
- Idling of the vehicles especially during unloading will be avoided.
- Effective Green Belt (33%) to contain emissions.

(xiv) Collection, transportation, storage & treatment of Bio Medical Waste as stipulated in Biomedical Waste Management Rules, 2016 and CPCB Guidelines for installation of Common Bio-medical Waste Treatment Facility.For Collection and Transportation of Bio medical Waste PP has proposed to provide following as per BMW Management Rules,2016:-

- Around 15 transport vehicles will be dedicated and have adopted conditions specified in BMW Management Rules,2016.
- Collection and transportation activities will be carried out with minimal/zero hazard to human health and environment.
- Proper care will be taken to ensure that segregated BMW handed over by HCEs reach CBWTF without any damage, spillage or unauthorized access.

- Vehicles will not be used for any other purpose. Every time a vehicle is unloaded, the vehicle and empty waste containers are washed and properly disinfected.

(xv) For solid waste PP has proposed to send all the incineration ash at common hazardous waste treatment and disposal facility (TSDF).Ash from Incineration and Sludge from Effluent Treatment Plant shall be disposed off in nearest TSDF through authorized vendor/recyclers.

PP has proposed depending on the category/nature disposal of all the generated hazardous waste as per Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and Bio medical waste as per Management and Handling)Rules, 2016 . No landfill site in the project. Only ash will be generated from incinerator and this will be disposed as per MoU with TSDF unit

(xvi) As per BMW Rules 2016,PP has proposed that HCEs are required to phase out use of chlorinated plastic bags, gloves and blood bags within two years, the facility utilizes non-chlorinated plastic colored bags only and wastes to be incinerated shall not be chemically treated with any chlorinated disinfectants However, Steps are taken to prevent reformation of dioxins by rapidly lowering the flue gas temperatures, particularly from 500° C to less than 200° C by adopting rapid quenching.

(xvii) Under storm water management, PP has proposed well – designed network of open surface drains which check dams at appropriate distance to improve the infiltration efficiency of the rain water into ground so that all the storm water is efficiently drained off without any water logging. PP has also proposed rain water harvesting with 04 no.of recharging pits to collect rain water.

(xviii)For fire fighting and disaster management, PP has proposed to provide firefighting equipment at appropriate locations (sand bags, fire extinguishers etc.) to carry out monitoring of incinerator operating parameters and proper roofing/flooring/building materials to withstand heat etc.

(xix) The power requirement of the project is 1000KVA.The source of electricity is Madhya Pradesh Kshetra Vidyut Vitran Company Limited. PP has also provided power back up by DG set capacity of 500 KVA.

(xx) PP has proposed to develop green belt area in 1875.15 sq m. by planting 320 numbers of trees.Plantation around project site need to be done in 3 lines i.e. first line of only flowering herbs/shrub, second line should be of shrub/hedge in close spacing and along the road of project site a row of small trees. The planting cost of 320 saplings @ Rs. 250 works out for Rs. 0.80 lakhs.

(xxi) Under CSR activities PP has proposed to provide safe drinking water & sanitation facility in nearby villages, waste segregation awareness programme, development of village school, plantation in nearby area, development of park/playground in nearby areas etc. with budgetary provision of **Rs. 3.0 Lakh** per year.

Based on the information submitted at Para i to xx above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 500th meeting held on 30.08.2018 and decided to accept the recommendations of *306th SEAC meeting dtd. 27.01.2018* dtd SEAC meeting held on dtd 17.06.2017.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14th September 2006 & its ammendments to the Proposed " Common Bio Medical Waste Treatment Facility (CBWTF) of M/s India Waste Management Pvt Ltd at E3 – New Industrial Area No. – II Mandideep Village Mandideep Tehsil - Goharganj, District – Raisen (M.P)Total plot area-20006.669 sq m. by Director, Shardul Shah M/s India Waste Management PVT LTD 30 MIG MLA Quarters Bhadbhada Road T.T. Nagar Bhopal (M.P) - 462003, subject to the compliance of the Standard Conditions enclosed at Annex-I and the following additional Specific Conditions as recommended by SEIAA & SEAC in its meetings.

A. Specific Conditions as recommended by SEIAA

1. The entire demand of fresh water should be met through AKVN (Bhopal) and there should be no extraction of ground water.
2. This EC will be subject to the location criteria to be decided by the MPPCB specially the proximity to the human settlement.
3. PP will take prior permission of MPPCB for establishing CBWTF at the site in reference to revised guideline of CPCB-2016 for CBWTF before installation.
4. PP should install adequate ETP for treatment and disposal of effluent and Zero discharge should be maintained.
5. Process effluent/any waste water should not be allowed to mix with storm water.
6. Guidelines of CPCB/MPPCB for Bio-Medical Waste Common Hazardous Wastes Incinerators shall be followed.
7. No landfill site is allowed within the CBWTF site.
8. 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.
9. 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.
10. 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.
11. Incinerator should be properly interlocked with venture scrubber to control air pollution.
12. Incinerated ash and ETP sludge shall be disposed at approved TSDF and MoU made in this regard should be done prior to the commencement.
13. Color coding for handling waste be strictly followed as per BMW Rules 2016.
14. PP should ensure the rain water harvesting by providing of recharging pits. In addition, PP should provide recharging trenches. The base of the trenches should be Kachha with pebbles.
15. 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.
16. Proper Parking facility should be provided for employees & transport used for collection & disposal of waste materials..
17. Necessary provision shall be made for firefighting facilities within the complex.
18. PP should carryout periodical air quality monitoring in and around the site including VOC, HC.
19. PP shall ensure to conduct quarterly health check up of workers working in the plant.
20. PP will construct garland drain of appropriate size and settling tank with stone pitching all around the plant premises.
21. PP should develop 8 m green belt all along the periphery of the species that are significant and used for the pollution abatement. Besides this, PP will explore the possibility to develop dense green belt by planting thick foliage trees to develop buffer zone in the additional land belongs to PP on eastern direction towards road to suppress emissions.
22. 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 their loss on ignition is less than 5% of the dry weight of the material.

23. Transportation and handling of Bio-medical Wastes shall be as per the Biomedical Wastes (Management and Handling) Rules, 2000 including the section 129 to 137 of Central Motor Vehicle Rules, 1989.

24. 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.

25. The Leachate from the facility shall be collected and treated to meet the prescribed standards before disposal.

26. 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.

27. The containers should be covered during transportation in order to prevent exposure of public to odors and contamination.

28. PP should have two storage rooms separately for treated and untreated waste.

29. PP should ensure the traffic movement plan, parking facilities and road width.

30. Under CSR activities PP has proposed to provide safe drinking water & sanitation facility in nearby villages, waste segregation awareness programme, development of village school, plantation in nearby area, development of park/playground in nearby areas etc. with budgetary provision of Rs. 3.0 Lakhs per year. PP should ensure to implement the commitment as proposed in the CSR activates.

31. PP should ensure the implementation of CSR activities on regular basis in consultation with the Gram Panchayat of the respective villages.

32. PP should develop green belt at least minimum of 33% in plant premises as per CPCB guidelines with native species/Pollution absorbing species..

B. Specific Conditions as recommended by SEAC

33. The EC shall be valid for establishing a phase wise Integrated Common Bio Medical Waste Treatment and Disposal Facility with following treatment capacity in phases–

Phase – 1:

- Incineration capacity: 1642.5 MT per year.
- Autoclaving capacity: 657 MT per year.
- Incinerator of capacity 250 kg/hr.
- 2 Autoclaves of capacity 50 kg/hr each.
- 2 Shredders of capacity 100 kg/hr each.
- ETP of 200 KLD treating capacity.
- Associated Utilities & Amenities.

Phase – 2:

- Laundry equipment with a capacity of 4000 kg/day.
- Boiler for the laundry.
- Associated Utilities & Amenities.

Phase – 3:

- Laundry of capacity 3000 kg/day.
- Boiler for the laundry.
- Associated Utilities & Amenities.

Phase – 4:

- Laundry of capacity 3000 kg/day with a total capacity of 10000 kg/day (Including Phase – 2, 3 and 4)
- Boiler.
- Associated Utilities & Amenities

Phase – 5:

- Incinerator of capacity 250 kg/hr.making total incineration capacity as 3285 MT per year including phase I and V.
- 2 Autoclaves of capacity 50 kg/hr each making autoclaving capacity 1314 MT per year
- 2 Shredders of capacity 100 kg/hr each
- Additional 100 KLD ETP making total capacity of 300 KLD including phase I and V.
- Associated Utilities & Amenities

(A) PRE-CONSTRUCTION PHASE

34. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
35. For dust suppression, regular sprinkling of water should be undertaken.
36. 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.
37. PP will obtain other necessary clearances/NOC from respective authorities.
38. 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.

(B) CONSTRUCTION PHASE

39. PPE's such as helmet, ear muffs etc should be provide to the workers.
40. Fire extinguishers should be provided on site during construction period.
41. Black carpet road should be provided to reduce dust suppression.
42. All vehicles carrying raw material should be covered with tarpaulin and unloading/loading activities should be stopped during windy period.
43. During construction phase, a settling tank should be provided and settled water should be reused for construction purpose.
44. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
45. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
46. Peripheral plantation inclusive of avenue and aromatic plantation at all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the EMP 320 trees are to be planted with budgetary provisions of Rs. 1.72 lakhs.
47. LED should be preferred over of tube lights/CFL.
48. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
49. PP should explore the possibility of providing solar street light.
50. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

51. Fresh water requirement for the project (five phases) shall not exceed 260.0 KLD.

52. Land use breakup details as proposed by PP for this facility are as follows:

Land use Break-Up for proposed unit	
Particulars	**Total Area 20006 Sq. mt.**
BMW Incinerator	1424.37
BMW Laundry	302.62
Incinerator Stack	16.00
Parking and Washing	71.02
ETP	279.42
Boiler Area	23.00
Green Area	1875.15
Road and Circulation	3228.64
Future Expansion	12785.78

53. 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 of 300 KLD (in two phases of 200 KLD and 100 KLD) with provision of tertiary system. Recycling of treated water shall be ensured to maintain zero discharge conditions.

54. 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 05X zoom and data connectivity must be provided to the MPPCB's server for remote operations.

55. 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 MPPCB norms. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Bhopal and MPPCB.

56. On line continous monitoring system shall also be installed to monitor the stack emission and data connectivity must be provided to the MPPCB's server for remote operations.

57. The height of the stack shall be not less than 30 mtrs.

58. 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.

59. 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.

60. Ventury scrubber with mist eliminator, Bag Filter, Multicyclone and dust collector shall be provided as air pollution control equipment.

61. Combustion gas analyzer to measure CO2, CO and O2 should be installed.

62. Internal roads will be concreted / asphalted to reduce dust emissions.

63. Spraying of "Ecosorb" should be performed on regular intervals to avoid any odor nuisance.

64. 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 MPPCB regularly.

65. The PP should comply with the provisions made in Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016.

66. 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.

67. 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.

68. PP shall ensure that bio medical waste shall be treated completely within 48 hrs from the time of collection. All conditions and guideline lay down by CPCB and BMW Act, 2016 shall be complied.

69. No hazardous waste should be disposed off in this facility.

70. As proposed, in the EMP 320 trees are to be planted with budgetary provisions of Rs. 1.72 lakhs in the project area which shall be developed as 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.

71. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.

72. In case of power failure, stand by D.G. Set/s 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.

73. 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.

74. For avoiding vehicle congestion /traffic jam within facility premises or outside road proper turning and parking space be provided. Also all internal roads shall be made pucca/bituminous top to avoid fugitive emissions.

75. All recommendations and pollution mitigative measures proposed in the EMP shall be binding for the project authorities.

76. Pucca flooring / impervious layer shall be provided in the work areas, chemical/waste oil storage areas and chemical handling areas to minimize soil contamination.

77. 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.

78. The storm water drains shall be kept separate and shall remain dry throughout the year except monsoon.

(D) <u>ENTIRE LIFE OF THE PROJECT</u>

79. PP has proposed Rs. 70.00 lacks for environmental monitoring and management inclusive of green belt development and Rs. 7.00 lacks/year for recurring expenses in the proposed EMP of this project.

80. 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.

81. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.

82. 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.

83. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.

84. 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.

(Jitendra Singh Raje)
Member Secretary

1531
Endt No. / SEIAA/ 2018 Dated 18/10/18

Copy to:-

(1). Principal Secretary, Urban Development & Environment Deptt. 3rd Floor, Mantralaya Vallabh Bhawan, Bhopal.

(2). Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-462016.

(3). Member Secretary, MPPCB, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.

(4). The Collector, Distt- Raisen -M.P.

(5). M.D.MPAKVN (B), 1st Floor, Tawa Complex, Bittan Market, E-5, Arera Colony, Bhopal - 462 016, M.P.

(6). Director, I.A. Division, Monitoring Cell, MoEF, GoI, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110 003

(7). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.

(8). Guard file.

Encl: Standard Conditions (Annex-I)

(Dr. Sanjeev Sachdev)
Officer-in-Charge

Standard Conditions related to Activity 7 (da) - Bio-Medical Waste Treatment (BMW) Category B projects under the Schedule of Ministry of Environment and Forests, GoI Notification dtd 14-09-06

Annex-I

1. Any enhancement of capacity, change in technology, modernization and scope of working shall again required prior environmental clearance as per EIA notification, 2006.
2. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
3. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.
4. "Consent for Establishment" shall be obtained from the MPPCB under the Air and Water Act and a copy shall be furnished to the MPSEIAA, before taking up any construction activity at the site.
5. 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.
6. Guidelines of State Pollution Control Board (MPPCB) for Common Hazardous Wastes Incinerators shall be followed.
7. Incinerated ash shall be disposed at approved TSDF and MoU made in this regard shall be submitted to the Ministry prior to the commencement.
8. Periodical air quality monitoring in and around the site shall be carried out. The parameters shall include Dioxin and furans.
9. Use only low sulphur diesel. No other oil shall be used.
10. The proponent shall comply with the Environmental standards notified by Ministry of Environment, Forest & Climate Change for incinerators along with the technology/guidelines.
11. Necessary provision shall be made for firefighting facilities within the complex. The Project Proponent should carryout periodical air quality monitoring in and around the site including VOC, HC.
12. 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.
13. 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.
14. 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.

(Anupam Rajan)	(H.S.Verma)	(Waseem Akhtar)
Member Secretary	Member	Chairman

Issued Vide No. 1530-31/SEIAA/EPCO
Dated 18.10.18

15. 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 their loss on ignition is less than 5% of the dry weight of the material.

16. Pizometric holes shall be identified/constructed in all directions for monitoring.

17. Guidelines published by the Central Pollution Control Board from time to time for common incineration facilities shall be referred for implementation.

18. 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.

19. The Leachate from the facility shall be collected and treated to meet the prescribed standards before disposal.

20. The proponent should obtained necessary clearance from the Central Ground Water board Authority if requird.

21. Project proponent should prepare and implement an On Site Emergency Management Plan.

22. Project proponent should carryout periodical ground water/soil monitoring in and around the site to check the contamination including TCLP test for heavy metals.

23. 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.

24. All measures for air pollution control shall be adopted.

25. There should not be any spillage from the transportation vehicles.

26. Zero discharge system shall be adopted.

27. Double containment system shall be provided for all waste transport vehicles to avoid spillage. The spillage shall be cleared immediately.

28. Vehicles should prominently display complaint numbers for use of public as well as antidotes to any toxic waste.

29. All the recommendations of EMP/DMP shall be strictly complied.

30. 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.

31. Untreated domestic effluent should not be discharged into open drain. The domestic effluent should be treated in a well designed septik tank with soak pit. 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 STP.

32. All the commitment made regarding issues raised during the public hearing / consultation meeting shall be satisfactorily implemented. Item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal.

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Implementation of such program shall be ensured as office Memorandum dated 18.05.12 of MoEF, GoI and its amendments.

33. 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-1, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.

34. Corporate Environment Responsibility:

a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/ conditions.
c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/ or shareholders or stakeholders at large.

35. Ambient noise level should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should confirm to the standards prescribed under EPA Rules, 1989 & its amendments.

36. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

37. There shall not be removal/destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of appropriate authority.

38. Adequate measures shall be adopted to ensure industrial safety. Proper fire detection & protection systems shall be provided to control fire and explosion hazards. The implementation and monitoring of Environmental Management Plan and Disaster Management Plan should be carried out.

39. Environmental Management Information System shall be in position and maintained properly.

40. No further expansion or modifications in the project should be carried out without prior approval of the State Environmental Impact Assessment Authority (MP-SEIAA) .

41. The gaseous emissions from various process units should conform to the load/mass based standards prescribed by the MoEF & CC and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.

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42. A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.

43. Project Proponent has to strictly follow the direction/guidelines issued by MoEF, CPCB and other Govt. Agencies from time to time.

44. 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 the MoEF, GoI, and its Regional Office, Bhopal.

45. The Regional Office, MoEF,GoI, Bhopal & MPPCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan, and Environmental Monitoring Plan as approved by SEAC should be submitted to Regional Office, MoEF, GoI, Bhopal & MPPCB within six months.

46. Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation shall be submitted to the Regional Office, MoEF, GoI, Bhopal, MP PCB within six months.

47. A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies (Panchayat and Municipal Bodies), District Collector and DFO as applicable and responsible for controlling the proposed projects who in turn has to display the same for 30 days from the date of receipt.

48. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the State Level Environment Impact Assessment Authority (SEIAA) website at www.mpseiaa.nic.in and a copy of the same shall be forwarded to the Regional Office, MoEF& CC GoI, Bhopal.

49. The Project Proponent has to upload only soft copy of half yearly compliance report of the stipulated prior environmental clearance terms and conditions on 1st June and 1st December of each calendar year on MoEF & CC web portal - http://www.environmentclearance.nic.in/ or http://www.efclearance.nic.in/.

50. 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 MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria of pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

51. Full Cooperation should be extended to the Officers and staff from the Ministry and its Regional Office at Bhopal / the CPCB / the SPCB during monitoring of the project.

52. The SEIAA of M.P. reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance

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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.

53. 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.

54. Concealing factual data or submission of false/fabricated data and 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) Act, 1986.

55. The Environmental Clearance shall be valid for a period of five years from the date of issue EC as per EIA Notification, 2006 Para 9.

56. Any appeal against this prior environmental clearance shall lie with the National Green Tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

57. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with amendments and rules.

58. 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 Regional Office of MoEF.

59. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

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Member Secretary

(H.S.Verma)
Member

(Waseem Akhtar)
Chairman

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