



सत्यमेव जयते

File No: EC/SEIAA/2022-23/2776/2023

Government of India

Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), JHARKHAND)

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Date 15/05/2024



To,

ASHOK KUMAR  
ROYAL WASTE MANAGEMENT (OPC) PRIVATE LIMITED  
C/O Naushad Ali, House No. 82 Near Azad Nursing Home, Bhanadrih, Giridih, Jharkhand, C/o  
Naushad Ali, House No. 82 Near Azad Nursing Home Bhanadrih, Giridih Jharknad. , GIRIDIH,  
JHARKHAND, 815301  
royalwastemanagement23@gmail.com

**Subject:** Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

**Sir/Madam,**

This is in reference to your application submitted to SEIAA vide proposal number SIA/JH/INFRA2/470321/2024 dated 24/04/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24B3301JH5542554N
(ii) File No.	EC/SEIAA/2022-23/2776/2023
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	7(da) Bio-Medical Waste Treatment Facilities
(vii) Name of Project	Environment Clearance of Proposed Common Bio Medical Waste Treatment Facility (CBWTF) M/S Royal Waste Management (OPC) Pvt. Ltd.
(viii) Name of Company/Organization	ROYAL WASTE MANAGEMENT (OPC) PRIVATE LIMITED
(ix) Location of Project (District, State)	GIRIDIH, JHARKHAND
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEIAA under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on . The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above or through the following web link [click here](#).
5. The brief about configuration of products and byproducts as submitted by the Project Proponent in orm-1 (Part A, B and C)/ EIA & EMP Reports / presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on , based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to compliance of Specific and Standard EC conditions as given in this letter.
7. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the State Environment Impact Assessment Authority(SEIAA) Appraisal Committee hereby accords Environment Clearance to the instant proposal of M/s. ASHOK KUMAR under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. Validity of EC is upto 15/05/2024 to the start of production operations by the project or activity. Validity of EC becomes perpetual subject to the start of production operations by the project or activity on or before the [Project\_Date] In case the project proponent fails to start the production operations within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006 and its amendment.
12. General Instructions:
  - (a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
  - (b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
  - (c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
  - (d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
  - (e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
  - (f) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
  - (g) Any appeal against this EC 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.

13. This issues with the approval of the Competent Authority

**Copy To**

1. Principal Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District - Giridih, Jharkhand.
3. Divisional Forest Officer, Giridih West Forest Division, Giridih, Jharkhand.
4. Divisional Forest Officer, Wildlife Division, Hazaribagh, Jharkhand
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2<sup>nd</sup> Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Member Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.

**Annexure 1**

**Specific EC Conditions for (Bio-medical Waste Treatment Facilities)**

**1. Specific**

S. No	EC Conditions
1.1	<p><b>A. SPECIFIC CONDITION:</b></p> <ol style="list-style-type: none"><li>i. All the recommendations, mitigation measures, environmental protection measures and safeguard s proposed in the EIA report of the project and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.</li><li>ii. The unit shall strictly comply with the CPCB guidelines for setting up the Common Bio-Medical Waste Treatment Facility. [CBWTF]</li><li>iii. Proponent shall strictly comply the design criteria for incinerator, autoclave and shredder as per the CPCB guidelines.</li><li>iv. The unit shall strictly setup the dry technology system.</li><li>v. The unit shall strictly ensure mercury waste management at health care facility as per the CPCB guidelines.</li><li>vi. The unit shall establish Standard Operating Procedure for waste collection, handling, transportat ion, treatment and disposal as per Biomedical Waste Management Rules, 2016.</li><li>vii. Zero Liquid Discharge (ZLD) status shall be maintained all the time.</li><li>viii. There shall be no drainage connections from the premises.</li></ol> <p><b>B. CONSTRUCTION PHASE:</b></p> <ol style="list-style-type: none"><li>i. Water demand during construction shall be reduced by use of curing agents. super plasticizers and other best construction practices.</li><li>ii. Project-proponent shall ensure that surrounding environment shall not be affected due to construction activity.</li><li>iii. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.</li><li>iv. All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.</li><li>v. First Aid Box shall be made readily available in adequate quantity at all the times.</li><li>vi. The project proponent shall strictly comply with the Building and other Construction Workers</li></ol>

S. No	EC Conditions
	<p>(Regulation of Employment &amp; Conditions of Service) Act 1996 and Jharkhand rules made there under and their subsequent amendments. Local byelaws of concern authority shall be complied in letter and spirit.</p> <p>vii. Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.</p> <p>viii. Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.</p> <p>ix. Safe disposal of sewage and municipal solid wastes generated during the construction phase shall be ensured.</p> <p>x. All topsoil excavated during construction activity shall be used in horticultural/landscape development within the project site.</p> <p>xi. Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed of with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighboring communities.</p> <p>xii. Project proponent shall prefer use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC) and lead free paints in the project.</p> <p>xiii. Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time. Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to all surroundings.</p> <p><b>C. OPERATION PHASE:</b></p> <p>i. Consent to Operate shall be obtained from JSPCB under Air (Prevention &amp; Control of Pollution) Act, 1981 and Water (Prevention &amp; Control of Pollution) Act, 1974 before operation, failing which the Environmental Clearance herein shall be deemed to be withdrawn.</p> <p>ii. Authorization from Jharkhand State Pollution Control Board shall be obtained as applicable under Bio-Medical Waste Management Rules, 2016.</p> <p>iii. The Bio-Medical wastes shall be managed in accordance with the Bio-Medical Waste Management Rules 2016.</p> <p>iv. Incinerated ash, used oil, sludge salt, treated biomedical waste and ETP Sludge should be disposed in accordance with BMW Rules, 2016.</p> <p>v. The proponent shall comply with the Environmental standards notified by Ministry of Environment, Forest &amp; Climate Change for incinerators along with the technology/guidelines.</p> <p>vi. Guidelines published the Central Pollution Control Board from time to time for Common Bio Medical Waste Treatment published shall be referred for implementation.</p> <p>vii. There should not be any spillage from the transportation Vehicles.</p> <p>viii. The project proponent will set up separate Environmental Management Cell for effective implementation of stipulated environmental safeguards under the supervision of Senior Executive.</p> <p>ix. All the recommendations of EMP shall be strictly complied.</p> <p>x. The environmental safeguards containing the EIA report shall be implemented in letter &amp; spirit.</p> <p>xi. Necessary provision shall be made for firefighting facilities within the complex.</p> <p>xii. Treated flue gas emissions discharged through stack to atmosphere shall always be less than specific emission' standards.</p> <p>xiii. Project Proponent shall ensure regular operation and maintenance of the ETP and printed logbook shall be maintained</p> <p>xiv. All the pipelines carrying water/ waste water should be distinguished using colour coding on raw water pipes and reuse lines of treated water.</p> <p>xv. Utilization of Diesel power generating sets is subject to power failure condition only. The DG sets proposed as a source of power back up during operation phase should be of enclosed type, low sulphur diesel run and conform to rules made under the Environment (Protection) Act, 1986. The</p>

S. No	EC Conditions
	<p>DG sets should be subjected to periodic noise and stack monitoring.</p> <p>xvi. Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.</p> <p>xvii. Energy Conservation measures such as LEDs light for common lighting of areas, signage etc should be adopted.</p> <p>xviii. The unit shall develop 33% plot area as a green belt within premises as per the CPCB guidelines.</p> <p><b>D. WATER:</b></p> <p>i. Total water requirement for the project shall not exceed 20 KL/day and wastewater generation would be around 15 KLD, the wastewater generated will be treated in ETP.</p> <p>ii. State Ground Water Board / Central Ground Water Board permission should be taken before water uses as per project requirement.</p> <p>iii. Waste water generation from floor washing, vehicle washing and Autoclaving (4 L/day) shall be treated in proposed ETP. (Cap. 15 KL/Day).</p> <p>iv. Entire quantity of treated waste water shall be reused for industrial purpose within the premises after conforming the JSPCB norms.</p> <p>v. The unit shall provide adequate effluent treatment plant (ETP) comprises of Primary, tertiary treatment plants and it shall be operated regularly and efficiently so as to ensure reuse for quenching process.</p> <p>vi. Separate energy meter shall be provided at ETP. A proper operation logbook of the ETP containing records of quantities and qualities of treated effluent.</p> <p>vii. The domestic wastewater generation shall not exceed 2.4 KL/day for proposed project and it shall be disposed of into soak pit system.</p> <p>viii. The Zero wastewater discharge condition to be achieved with utilizing treated effluent for lime slurry preparation for spraying in reactor for quenching process as well as floor and vehicle washing.</p> <p>ix. The project proponent shall provide electromagnetic flow meter at the inlet &amp; outlet of the water supply, Inlet &amp; outlet of the ETP and shall maintain a record of readings of each such meter on daily basis.</p> <p>x. The quantity of fresh water usage and water recycling shall be monitored &amp; maintained so that water balance as projected by the project proponent. The record shall be submitted to the JSPCB, SEIAA &amp; Regional Office, MoEF &amp; CC along with six monthly monitoring reports.</p> <p><b>E. AIR:</b></p> <p>i. Regular monitoring of ground level concentration of PM10, PM2.5, NOx and VOC shall be carried out at the site and downwind direction and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the CPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately.</p> <p>ii. Proponent shall strictly follow the odour control measures as suggested in environmental management plan.</p> <p>iii. Proponent shall strictly follow the Environmental Monitoring Program [EMP] for Ambient Air Quality Monitoring (AAQM).</p> <p>iv. Treated flue gas emissions discharged through stack to atmosphere shall always be less than CPCB stipulated emission standards.</p> <p>v. DG sets should be maintained as per the norms prescribed by Govt. of Jharkhand.</p> <p>vi. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.</p> <p>vii. A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive &amp; transport dust emission.</p> <p><b>F. SOLID/HAZARDOUS WASTE:</b></p> <p>i. The Company shall strictly comply with the rules and regulations with regards to handling and</p>

S. No	EC Conditions
	<p>disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, as may be amended from time to time. Authorization of the JSPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.</p> <p>ii. Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.</p> <p>iii. Incinerator Ash, ETP sludge &amp; salt sludge (From reactor) shall be disposed off at the nearby common TSDF.</p> <p>iv. Treated Biomedical plastic waste shall be sold out to JSPCB authorized recycler only.</p> <p>v. Used Oil shall be either reused for lubrication in plant machineries or sold out to registered recyclers,</p> <p>vi. Discarded container / bags shall be either reused or sold only to the authorized recyclers.</p> <p>vii. Treated glass waste shall be sold out to JSPCB authorized recycler only.</p> <p>viii. Sharp waste shall be disposed through in-house designated concrete sharp pit and disposal to sanitary landfill.</p> <p>ix. The unit shall obtain necessary permission from the nearby TSDF site.</p> <p>x. Trucks / Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.</p> <p>xi. The design of the Trucks/tankers shall be such that there is no spillage during transportation.</p> <p>xii. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.</p> <p>xiii. Management of fly ash (If any) shall be as per the Fly ash Notification, 2009 &amp; its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.</p> <p><b>G. SAFETY:</b></p> <p>i. The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Factories Rules of the State of Jharkhand.</p> <p>ii. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.</p> <p>iii. Main entry and exit shall be separate and clearly marked in the facility.</p> <p>iv. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.</p> <p>v. Sufficient number of fire extinguishers shall be provided near the plant and storage area.</p> <p>vi. All necessary precautionary measures shall be taken to avoid any kind of accident during loading, unloading and transportation of biomedical waste.</p> <p>vii. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.</p> <p>viii. Only flame proof electrical fittings shall be provided in the plant premises.</p> <p>ix. All the waste storage room shall be marked with colour coding as per the CPCB guidelines time to time.</p> <p>x. Proponent shall tie up with nearby health care facility for any emergency cases.</p> <p>xi. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.</p> <p>xii. First Aid Box in the unit shall be made readily available in adequate quantity.</p> <p>xiii. Training shall be imparted to all the workers on safety and health aspects of biomedical waste handling.</p> <p>xiv. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act &amp; Rules.</p>

S. No	EC Conditions
	<p>xv. Transportation of biomedical waste shall be done as per the provisions of the Motor Vehicle Act &amp; Rules.</p> <p>xvi. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.</p> <p><b>H. NOISE:</b></p> <p>i. The overall noise level in and around 'the plant area 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.</p> <p>The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 &amp; Rules.</p> <p><b>I. GREEN BELT AND OTHER PLANTATION:</b></p> <p>i. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in JIDC estate or any other open areas in consultation with the JIDC / JSPCB and submit an action plan of plantation for next three years to the JSPCB.</p> <p>ii. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.</p> <p><b>J. OTHER CONDITIONS:</b></p> <p>i. Rain water recharging of surface as well as rooftop runoff shall be undertaken as per the guidelines / parameter of the State Ground Water Board / Central Ground Water Board and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.</p> <p>ii. The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or JIDC or JSPCB or any such authority created for this purpose by the Govt. I JIDC.</p> <p>iii. The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.</p> <p>iv. All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to .</p> <p>v. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIM or any other competent authority for the purpose for the environmental protection and management.</p> <p>vi. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.</p> <p>vii. The project authorities must strictly adhere to the stipulations made by the Jharkhand Pollution Control Board (JSPCB), State Government and any statutory authority.</p> <p>viii. During biomedical waste unloading there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic waste water or storm water.</p> <p>ix. Pucca flooring impervious layer shall be provided in the work areas, biomedical waste storage areas and chemical handling areas to minimize soil contamination.</p> <p>x. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.</p> <p>xi. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention &amp; Control of Pollution) Act, 1974, Air (Prevention &amp; Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous &amp; other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.</p> <p>xii. The project proponent shall comply all the conditions mentioned in “ The Companies (Corporate Social Responsibility Policy) Rules, 2014” and its amendments from time to time in a letter and spirit.</p>

S. No	EC Conditions
	<p>xiii. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.</p> <p>xiv. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as JSPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.</p> <p>xv. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the JSPCB and may also be seen at the Website of SEIAA/SEAC/JSPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the local / hindi language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.</p> <p>xvi. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as JSPCB.</p> <p>xvii. 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.</p> <p>xviii. The project authorities shall also adhere to the stipulations made by the Jharkhand State Pollution Control Board.</p> <p>xix. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.</p> <p>xx. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.</p> <p>xxi. The project authorities shall inform the JSPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.</p> <p>xxii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF &amp; CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi/SEIAA/CPCB.</p> <p>xxiii. 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.</p> <p>xxiv. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.</p> <p>xxv. 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.</p> <p>The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF&amp;CC, Govt. of India.</p>

**Additional EC Conditions**

N/A

**Annexure 2**

**Details of the Project**

S. No.	Particulars	Details	
a.	Details of the Project	Environment Clearance of Proposed Common Bio Medical Waste Treatment Facility (CBWTF) M/S Royal Waste Management (OPC) Pvt. Ltd.	
b.	Latitude and Longitude of the project site	24.40866466848159,86.1764538099349 24.4099378381538,86.17751897824539	
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved	
		Non-Forest Land (A)	0.63
		Forest Land (B)	0
		Total Land (A+B)	0.63
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement involvement (R&R)	NO	
f.	Project Cost (in lacs)	310	
g.	EMP Cost (in lacs)	37	
h.	Employment Details		

#### Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Common Bio Medical Waste Treatment Facility (CBWTF)	By-Product	1800	Tons per Annum (TPA)	Rail	Biomedical waste



## State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834 004

E-mail: [msseiaa.jhk@gmail.com](mailto:msseiaa.jhk@gmail.com)/[chr-seiaajhr@gov.in](mailto:chr-seiaajhr@gov.in)

website: [www.jseiaa.org](http://www.jseiaa.org)

Letter No.- EC/SEIAA/2022-23/2776/2023/

Ranchi, Date :

To: M/s Royal Waste Management (OPC) Pvt. Ltd.,  
Director : Shri Ashok Kumar,  
C/o Naushad Ali, House No. : 82,  
Near Azad Nursing Home, Bhanadrih,  
District : Giridih, (Jharkhand).

Sub: Environmental Clearance for the project “Proposed Common Bio-Medical Waste Treatment Facility (CBWTF) by M/s Royal Waste Management (OPC) Pvt. Ltd., Mouza : Pargodih, Tehsil : Jamua, Distt. : Giridih, Jharkhand” (Proposal No. SIA/JH/INFRA2/470321/2024) – regarding.

Ref: Your application no. Nil, dated : 24.04.2024.

Sir,

It is in reference to “Proposed Common Bio-Medical Waste Treatment Facility (CBWTF) by M/s Royal Waste Management (OPC) Pvt. Ltd., Mouza : Pargodih, Tehsil : Jamua, Distt. : Giridih, Jharkhand” submitted by you for seeking prior Environmental Clearances (EC).

This is a new project which has been taken for appraisal on 28.04.2024.

**Project Category :** 7 (da) Common Bio-Medical Waste Treatment Facility as per EIA Notification, 2006 and subsequent amendments dated 1st December, 2009 & 17th April, 2015.

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 108th meeting held on 19-25.09.2023 and SEIAA, Jharkhand has approved the ToRs in 109th meeting held on 27th & 28th September, 2023. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2022-23/2776/2023/305, date 06.10.2023. The final EIA / EMP submitted by PP to SEAC on 24.04.2024.

### Salient Features of The Project

Sl.No.	Parameters	Description
1.	Identification of Project	The Proposed project of CBWTF falls under

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

		Category B, schedule 7 (d)(a) as per the EIA Notification 14th Sep, 2006 and subsequent amendments dated 1st December, 2009 & 17th April, 2015.									
2.	Project Proponent	<b>M/s Royal Waste Management (OPC) Private Limited.</b>									
3.	Brief description of nature of the project	<p>Biomedical waste is generated from all health care centres/institutions; nursing homes, clinics, dispensaries, veterinary institutions, animal houses, pathological laboratories, blood banks etc. The responsibility of collection, treatment and safe disposal of all types of biomedical wastes rests with the generator.</p> <p>A Common Bio-medical Waste Treatment Facility (CBWTF) is proposed to be set up where bio-medical waste, generated from a number of healthcare units, will be suitably treated as per the prescribed procedure &amp; norms laid down in the regulation.</p> <p>Proposed project of setting up of the Common Bio- medical Waste Treatment Facility includes Incinerator, Autoclave, Shredder and Effluent Treatment Plant. The present proposal is to utilize 0.63 ha land for setting up of Biomedical Waste Treatment Facility.</p>									
4.	<b>Salient Features of the Project</b>										
5.	Proposed plant capacity	<p>Proposed Capacity of CBWTF:</p> <table border="1"> <thead> <tr> <th>Equipment</th> <th>Capacity</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Incinerator (02 No.) standby</td> <td>250 kg/hr</td> <td>2</td> </tr> <tr> <td>Autoclave</td> <td>1000 liters/Batch</td> <td>1</td> </tr> </tbody> </table>	Equipment	Capacity	Number	Incinerator (02 No.) standby	250 kg/hr	2	Autoclave	1000 liters/Batch	1
Equipment	Capacity	Number									
Incinerator (02 No.) standby	250 kg/hr	2									
Autoclave	1000 liters/Batch	1									

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		Shredder	150 kg/hr	1
		Chemical Disinfection Tank	1500 Ltr	1
		Effluent Treatment Plant	10 KLD	1
6.	Category of Projects	Category "B" and Schedule- 7(d)(a)		
7.	Number of working days	365		
8.	Total Plot Area	0.63 ha		
9.	Plot Number	84		
10.	Location	Thana No.- 328, Khata No. - 97, Plot No. - 84, Mouza - Pargodih, Tehsil - Jamua, Dist. - Giridih, Jharkhand.		
11.	Latitude & Longitude	S.No.	Latitude	Longitude
		1.	24.409173°	86.176453°
		2.	24.409601°	86.176810°
		3.	24.409481°	86.177052°
		4.	24.409939°	86.177302°
		5.	24.409832°	86.177519°
		6.	24.409216°	86.177331°
		7.	24.409180°	86.177162°
		8.	24.408651°	86.176881°
12.	Nearest habituated area	Jagarnathdih is located at 1.5 Km in SW direction.		
13.	Nearest Main Public Road	SH 13 approx 5.3 Km SSW Jamua Deoghar Road approx. 0.5 Km NW		
14.	Nearest Railway station/Airport	Duriatanr halt, approx. 8 Km West. Jamua Railway Station approx. 6.0 KM SSW.		

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		Deoghar Airport, approx. 55 km in East
15.	Nearest water body	Barakar River, approx. 31 Km SW. Usri River 2.7 Km East.
16.	Water requirement	Water requirement for the proposed CBWTF project is 11 KLD.
17.	Source of water	Water requirement will be met through ground water supply. CGWA NOC is exempted as this is a MSME company.
18.	Wastewater Generation	Waste water generated from the treatment of Biomedical waste during autoclaving, washing of floors, etc. is 5.25 KLD and it shall be treated in effluent treatment plant and reuse in process
19.	Man Power	During Construction phase, the labors and workers will be hired from nearby villages. Total 25 persons are proposed to be hired for plant operation including officers, skilled and unskilled workers.
20.	Air Pollution Control Device	Venturi Scrubber & Stack
21.	Nos. of Stack	1
22.	Power requirement	Total power requirement of will be around 62.5 KVA which will be taken from the Jharkhand Bijli Vitran Nigam Limited. DG Set of 82.5 KVA is proposed for the alternate Power Source.
23.	Alternative site	No Alternative site is examined
24.	Land form, Land use and land ownership	The land for project is located at Thana No.- 328, Khata No. - 97, Plot No. - 84, Mouza - Pargodih, Tehsil - Jamua, Dist.- Giridih, Jharkhand.
25	Total project cost	Rs. 3.10 Crore.

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**Land details:**

Khata no.	Plot no.
97	84 (P)

**Configuration and Production Capacities of the existing & Proposed Units**

Equipment	Capacity	Number
Incinerator (02 No.) standby	250 kg/hr	2
Autoclave	1000 liters/Batch	1
Shredder	150 kg/hr	1
Chemical Disinfection Tank	1500 Ltr	1
Effluent Treatment Plant	10 KLD	1

**Details of Storage Facilities:**

S.No.	Storage Facility For	Facility
1.	Raw Materials	An isolated waste storage room shall be provided for Bio Medical Waste Storage.
2.	Industrial Effluent	Waste water (5.25 KLD) is being generated from the Industrial Process will be subjected to Proposed ETP (Capacity- 10.0 KLD). Treated water from (4.30 KLD) will be reused in scrubber for cooling purpose and green belt purpose.
3.	Hazardous Waste	TSDF/Authorized recyclers.

**Water Requirement, Waste Water Generation & Mode of Disposal (KLD)**

S.No.	Particulars	Total water requirement
1.	Incineration Process (Scrubbing)	2.40
2.	Steam Generation (Autoclaving)	0.20
3.	Miscellaneous i.e., Floor washing, Vehicle washing etc.	3.80
4.	Domestic Purpose	0.60
5.	Green Belt	4.0
<b>Total</b>		<b>11.00</b>

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### ZLD Scheme

- Waste water (5.25 KLD) is being generated from the Industrial Process will be subjected to Proposed ETP (Capacity- 10.0 KLD). Treated water from (4.30 KLD) will be reused in scrubber for cooling purpose and green belt purpose.
- The entire system shall be a zero-discharge system in terms of wastewater discharge from the process as recirculated through ETP.
- Domestic Wastewater shall be treated in a soak pit/septic tank.

S. No.	Requirement for	Water Consumption	Process Losses	Losses	Waste water generation	Recycled/ Reuse
A.	Process (Scrubbing)	2.40	1.40	0.20	1.00	0.0
B.	Steam Generation (Autoclaving)	0.20	0.05	0.5	0.15	0.00
C.	Miscellaneous i.e., Floor washing, Vehicle washing etc.	3.80	0.20	0.25	3.60	2.20
D.	Domestic Purpose	0.60	0.10	0.00	0.50	0.00
E.	Green Belt	4.0	4.0	0.00	0.00	2.10
<b>Total (KL/Day)</b>		<b>11.0 6.70 (Fresh) + 4.30 (Recycled)</b>	<b>5.75</b>	<b>0.50</b>	<b>5.25</b>	<b>4.30</b>

**Power:** Total power demand of the proposed unit would be 62.5 KVA which is being sourced from Jharkhand Bijli Vitran Nigam Limited. Green insulated DG Set of capacity 82.5 KVA (01No.) is proposed. (Proposed DG Set to be operated during emergency in case of power failure only).

### Air pollution sources, fuel consumption and chimney height details:

Sl. No.	Stack attached to	Fuel used	Fuel consumption	No. of stacks	Stack height	Air pollution control Unit	Predicted emissions
1.	Proposed Green insulated DG set of	HSD	15.0 Lit/hr approx.	01	1.5 m aboved from nearest	Stack	SO <sub>2</sub> , NO <sub>x</sub> , SPM

	capacity 35.0 KVA (01 Nos.)				Building HT		
2.	Incineration Unit	HSD	65.0 Lit/Month Approx.	01	30 m AGL	Venturi Scrubber & Stack	SO <sub>2</sub> , NO <sub>x</sub> , SPM, Flue Gas

### Industrial Solid waste and Hazardous waste

Total No. of Employees	25
Assuming per capita solid waste generation rate as 0.2 kg/capita/day	
Quantity of solid waste generated	5.0 kg/day
Organic solid waste: 60 % of the total waste	3.0 kg/day
Inorganic solid waste: 40 % of the total waste	2.0 kg/day
Disposal of domestic solid waste	Domestic wastes are segregated at source, collected in bins and composted.

### Hazardous Waste:

Sl. No.	Source	Quantity of hazardous waste Generated (Approx.)	Category according to Schedule I of hazardous waste	Treatment/ Disposal
1.	Spent Oil from DG set	5.0 MTPA	5.1	Handed over to authorized recyclers/re-processors
2.	Discarded Containers /Barrels	100 Nos./Annum	33.1	Handed over to authorized recyclers/re-processors
3.	Sludge from Wet Scrubbers	1.0 MTPA	37.1	Send to TSDF / Co processing industries.

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4.	Ash from incinerator and flue gas cleaning residue	5.0 MTPA	37.2	Send to TSDF / Co processing industries.
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**EMP budget**

**Cost for EMP during construction phase :**

Sr. No.	Particulars	Approx. Capital Cost (Lac)	Approx. Recurring Cost (Lac)	Items Covered
1.	Toilets for workers	1	0.1	Toilets with septic tank
2.	Wind breaking curtains	0.5	0.1	Wind breaking walls at vulnerable areas
3.	Sprinklers for suppression of dust	0.5	0.2	Sprinklers, Pipeline
	<b>Total</b>	<b>2</b>	<b>0.4</b>	

**Cost for EMP during Operational Phase**

S.No.	Particulars	Approx. Capital Cost (Lac)	Approx. Recurring Cost (Lac)
1.	APCD (Ventury Scrubber)/quenching	25.00	1.5
2.	Effluent Treatment Plant	10.00	1.0
3.	Green Belt	2.00	0.50
4.	Public hearing commitment budgetary allocation	0	10
	<b>Total</b>	<b>37</b>	<b>13</b>

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**Time bound Action Plan: Based on public hearing and consultations  
(Total budget 10 lakhs)**

S.NO.	Details of Activities	1st Year (amount in lakhs INR)	2nd Year (amount in lakhs INR)	3rd Year (amount in lakhs INR)
1.	Plantation of (1100 saplings including timber & horticulture) in the vicinity of the project location including schools, roads as avenue plantation and prominent roundabouts.	3.25	0.75	0.75
2.	Distribution of 25 water purifiers to nearby schools and aganwadi centers (AWCs) for Provisions of safe drinking water.	2	0.50	0.50
4.	Health Camp for local community for screening of general diseases	0.75	0.75	0.75

**Statutory Clearances:**

1	CO	:	The CO, Jamua vide letter no. 963, dated 11.10.2021 has mentioned the plot no. of the project is not recorded as "Jangal Jhari" in R.S. Khatiyani & Register II.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 2063, dated 28.11.2021 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
3	DFO Forest Distance	:	DFO, Giridih West Forest Division vide letter no. 1322, dated 22.11.2021 certified that the distance of reserved / protected forest is more than 250 m from the proposed project site.
4	Civil Surgeon –cum- Chief Medical Officer	:	Civil Surgeon –cum- Chief Medical Officer, Giridih vide ref. no. 796, dated 17.03.2023 certified that there is no Common Bio-Medical Waste Treatment Facility available within 75 kms from

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		the applied area.
5	Baseline Monitoring Report	: 1 <sup>st</sup> March, 2023 to 31 <sup>st</sup> May, 2023.
6	Public Hearing	: JSPCB, Regional Office –cum- Laboratory, Hazaribagh vide letter no. 289, dated 22.02.2024 informed that Public Hearing conducted on 13.02.2024.

**During the presentation the following documents were sought :**

- i. ToR point no. 13 have been required environment cost and benefit assessment. This has not been suitably addressed in Chapter 9 of EIA report. Accordingly, the PAs and the Consultant were asked to prepare environment cost and benefit assessment and include the same to the EIA report.

**The same has been included in Chapter 9 of EIA report and sent to the SEAC vide e-mail dated 30.04.2024**

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its 111<sup>th</sup> meeting held on 26<sup>th</sup>, 27<sup>th</sup>, 28<sup>th</sup>, 29<sup>th</sup> and 30<sup>th</sup> April, 2024.

State Level Environment Level Impact Assessment Authority (SEIAA), Jharkhand in its 111<sup>th</sup> meeting held on 06<sup>th</sup> & 07<sup>th</sup> May, 2024 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to “**Proposed Common Bio-Medical Waste Treatment Facility (CBWTF) by M/s Royal Waste Management (OPC) Pvt. Ltd., Mouza : Pargodih, Tehsil : Jamua, Distt. : Giridih, Jharkhand**” alongwith the following conditions -

**A. Specific Conditions:**

1. This Environmental Clearance is valid subject to the following condition below –  
That this project has-
  - a. Obtained all legal rights to operate at concerned place.
  - b. Complied with all existing concerned laws of the land and
  - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
2. **Ground water to be drawn for use in the project only after obtaining permission from the Competent Authority.**
3. **Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.**

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4. All raw material to be stored only under covered shed.
5. PAs to offset (upto20%) consumption of conventional energy sources by promoting use of solar energy, passive energy utilization, optimum fenestration, shading effect and heat islands.
6. Developers to promote energy conservation measures such that it offsets not less than 02 % of connected load. It is to be achieved by solar panels etc meeting ECBC norms.
7. Trees should be developed & maintained not less than 15% of project area.
8. Developers/Company to conduct and submit carbon footprint and carbon sequestration study report including mitigation measures as a part of EC compliance.
9. ISO 14k EMS system standard to be followed for implementation of EMPs with MRM in place for feedback to Sr. management.
10. No mining/activity shall be undertake in the forest land or deemed forest without obtaining requisite prior forestry clearance.
11. This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT, MoEF & CC and any other Court of Law, if any, as may be applicable to this project.
12. Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs / is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc. and or located with in 10 km. of protected area).
13. The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their respective merits, no rights will vest in or accrue to them unless all clearance are obtained.

**C. SPECIFIC CONDITION:**

1. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.
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 and shredder as per the CPCB guidelines.
4. The unit shall strictly setup the dry technology system.








5. The unit shall strictly ensure mercury waste management at health care facility as per the CPCB guidelines.
6. The unit shall establish Standard Operating Procedure for waste collection, handling, transportation, treatment and disposal as per Biomedical Waste Management Rules, 2016.
7. Zero Liquid Discharge (ZLD) status shall be maintained all the time.
8. There shall be no drainage connections from the premises.

**D. CONSTRUCTION PHASE:**

1. Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.
2. Project-proponent shall ensure that surrounding environment shall not be affected due to construction activity.
3. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.
4. All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.
5. First Aid Box shall be made readily available in adequate quantity at all the times.
9. The project proponent shall strictly comply with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act 1996 and Jharkhand rules made there under and their subsequent amendments. Local byelaws of concern authority shall be complied in letter and spirit.
10. Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.
11. Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.
12. Safe disposal of sewage and municipal solid wastes generated during the construction phase shall be ensured.
13. All topsoil excavated during construction activity shall be used in horticultural/landscape development within the project site.
14. Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed of with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighboring communities.
15. Project proponent shall prefer use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC) and lead free paints in the project.



16. Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time. Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to all surroundings.

**E. OPERATION PHASE:**

1. Consent to Operate shall be obtained from JSPCB under Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974 before operation, failing which the Environmental Clearance herein shall be deemed to be withdrawn.
2. Authorization from Jharkhand State Pollution Control Board shall be obtained as applicable under Bio-Medical Waste Management Rules, 2016.
3. The Bio-Medical wastes shall be managed in accordance with the Bio-Medical Waste Management Rules 2016.
4. Incinerated ash, used oil, sludge salt, treated biomedical waste and ETP Sludge should be disposed in accordance with BMW Rules, 2016.
5. The proponent shall comply with the Environmental standards notified by Ministry of Environment, Forest & Climate Change for incinerators along with the technology/guidelines.
6. Guidelines published the Central Pollution Control Board from time to time for Common Bio Medical Waste Treatment published shall be referred for implementation.
7. There should not be any spillage from the transportation Vehicles.
8. The project proponent will set up separate Environmental Management Cell for effective implementation of stipulated environmental safeguards under the supervision of Senior Executive.
9. All the recommendations of EMP shall be strictly complied.
10. The environmental safeguards containing the EIA report shall be implemented in letter & spirit.
11. Necessary provision shall be made for firefighting facilities within the complex.
12. Treated flue gas emissions discharged through stack to atmosphere shall always be less than specific emission' standards.
13. Project Proponent shall ensure regular operation and maintenance of the ETP and printed logbook shall be maintained.







14. All the pipelines carrying water/ waste water should be distinguished using colour coding on raw water pipes and reuse lines of treated water.
15. Utilization of Diesel power generating sets is subject to power failure condition only. The DG sets proposed as a source of power back up during operation phase should be of enclosed type, low sulphur diesel run and conform to rules made under the Environment (Protection) Act, 1986. The DG sets should be subjected to periodic noise and stack monitoring.
16. Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
17. Energy Conservation measures such as LEDs light for common lighting of areas, signage etc should be adopted.
18. The unit shall develop 33% plot area as a green belt within premises as per the CPCB guidelines.
19. Authorization from Jharkhand State Pollution Control Board shall be obtained as applicable under Bio-Medical Waste Management Rules, 2016.
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34. Energy Conservation measures such as LEDs light for common lighting of areas, signage etc should be adopted.
35. The unit shall develop 33% plot area as a green belt within premises as per the CPCB guidelines.

**F. WATER:**

1. Total water requirement for the project shall not exceed 20 KL/day and wastewater generation would be around 15 KLD, the wastewater generated will be treated in ETP.
2. State Ground Water Board / Central Ground Water Board permission should be taken before water uses as per project requirement.
3. Waste water generation from floor washing, vehicle washing and Autoclaving (4 L/day) shall be treated in proposed ETP. (Cap. 15 KL/Day).
4. Entire quantity of treated waste water shall be reused for industrial purpose within the premises after conforming the JSPCB norms.
5. The unit shall provide adequate effluent treatment plant (ETP) comprises of Primary, tertiary treatment plants and it shall be operated regularly and efficiently so as to ensure reuse for quenching process.
6. Separate energy meter shall be provided at ETP. A proper operation logbook of the ETP containing records of quantities and qualities of treated effluent.

26/11/24



17. The domestic wastewater generation shall not exceed 2.4 KL/day for proposed project and it shall be disposed of into soak pit system.
18. The Zero wastewater discharge condition to be achieved with utilizing treated effluent for lime slurry preparation for spraying in reactor for quenching process as well as floor and vehicle washing.
19. The project proponent shall provide electromagnetic flow meter at the inlet & outlet of the water supply, Inlet & outlet of the ETP and shall maintain a record of readings of each such meter on daily basis.
20. The quantity of fresh water usage and water recycling shall be monitored & maintained so that water balance as projected by the project proponent. The record shall be submitted to the JSPCB, SEIAA & Regional Office, MoEF & CC along with six monthly monitoring reports.

**G. AIR:**

1. Regular monitoring of ground level concentration of PM10, PM2.5, NOx and VOC shall be carried out at the site and downwind direction and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the CPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately.
2. Proponent shall strictly follow the odour control measures as suggested in environmental management plan.
3. Proponent shall strictly follow the Environmental Monitoring Program [EMP] for Ambient Air Quality Monitoring (AAQM).
4. Treated flue gas emissions discharged through stack to atmosphere shall always be less than CPCB stipulated emission standards.
5. DG sets should be maintained as per the norms prescribed by Govt. of Jharkhand.
6. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.
7. A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.

**H. SOLID/HAZARDOUS WASTE:**

1. The Company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, as may be amended from time to time. Authorization of the JSPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.
2. Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.







3. Incinerator Ash, ETP sludge & salt sludge (From reactor) shall be disposed off at the nearby common TSDF.
4. Treated Biomedical plastic waste shall be sold out to JSPCB authorized recycler only.
5. Used Oil shall be either reused for lubrication in plant machineries or sold out to registered recyclers,
6. Discarded container / bags shall be either reused or sold only to the authorized recyclers.
7. Treated glass waste shall be sold out to JSPCB authorized recycler only.
8. Sharp waste shall be disposed through in-house designated concrete sharp pit and disposal to sanitary landfill.
9. The unit shall obtain necessary permission from the nearby TSDF site.
10. Trucks / Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.
11. The design of the Trucks/tankers shall be such that there is no spillage during transportation
12. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
13. Management of fly ash (If any) shall be as per the Fly ash Notification, 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.

#### **I. SAFETY:**

1. The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Factories Rules of the State of Jharkhand.
2. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.
3. Main entry and exit shall be separate and clearly marked in the facility.
4. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
5. Sufficient number of fire extinguishers shall be provided near the plant and storage area.
6. All necessary precautionary measures shall be taken to avoid any kind of accident during loading, unloading and transportation of biomedical waste.
7. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
8. Only flame proof electrical fittings shall be provided in the plant premises.
9. All the waste storage room shall be marked with colour coding as per the CPCB .guidelines time to time.

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10. Proponent shall tie up with nearby health care facility for any emergency cases.
11. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
12. First Aid Box in the unit shall be made readily available in adequate quantity.
13. Training shall be imparted to all the workers on safety and health aspects of biomedical waste handling.
14. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
15. Transportation of biomedical waste shall be done as per the provisions of the Motor Vehicle Act & Rules.
16. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.

**J. NOISE:**

1. The overall noise level in and around the plant area 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 conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.

**K. GREEN BELT AND OTHER PLANTATION:**

1. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in JIDC estate or any other open areas in consultation with the JIDC / JSPCB and submit an action plan of plantation for next three years to the JSPCB.
2. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.

**L. OTHER CONDITIONS:**

1. Rain water recharging of surface as well as rooftop runoff shall be undertaken as per the guidelines / parameter of the State Ground Water Board / Central Ground Water Board and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter.
2. The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or JIDC or JSPCB or any such authority created for this purpose by the Govt. / JIDC.
3. The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.

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4. All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to .
5. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIM or any other competent authority for the purpose for the environmental protection and management.
6. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
7. The project authorities must strictly adhere to the stipulations made by the Jharkhand Pollution Control Board (JSPCB), State Government and any statutory authority.
8. During biomedical waste unloading there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic waste water or storm water.
9. Pucca flooring impervious layer shall be provided in the work areas, biomedical waste storage areas and chemical handling areas to minimize soil contamination.
10. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority
11. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous & other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
12. The project proponent shall comply all the conditions mentioned in “ The Companies (Corporate Social Responsibility Policy) Rules, 2014” and its amendments from time to time in a letter and spirit.
13. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.
14. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as JSPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
15. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the JSPCB and may also be seen at the Website of SEIAA/SEAC/JSPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the local / hindi language and the other in English.

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A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.

16. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as JSPCB.
17. 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.
18. The project authorities shall also adhere to the stipulations made by the Jharkhand State Pollution Control Board.
19. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
20. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
21. The project authorities shall inform the JSPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
22. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi/SEIAA/CPCB.
23. 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.
24. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.
25. 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.
26. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF & CC, Govt. of India.

Sd/-

Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.

Memo No.- EC/SEIAA/2022-23/2776/2023/ 55

Dated : 10.05.2024

Copy to:

1. Principal Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.

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2. Deputy Commissioner, District - Giridih, Jharkhand.
3. Divisional Forest Officer, Giridih West Forest Division, Giridih, Jharkhand.
4. Divisional Forest Officer, Wildlife Division, Hazaribagh, Jharkhand
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2<sup>nd</sup> Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Member Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.

