PARIVESH 1.0, AGENDA No.175.01	
Proposal No.	SIA/OR/INFRA2/452677/2023
Date of application	21.11.2023
File no.	452677/16-INFRA2/11-2023
Project Type	Proposal for ToR
Category	B1
Project/Activity including Schedule No.	7(da) Bio-Medical Waste Treatment Facilities
Name of the Project	ToR Proposal of M/s Renewable Envirogic Private Limited of Common Biomedical Waste Treatment Facility (CBWTF) At: Khata No.18, Plot No. 134, Mouza-Padmapur, Tahasil-Koraput, District–Koraput of Sri Debasis Tripathy
Name of the company/Organization	Sri Debasis Tripathy
Location of Project	Mouza-Padmapur, Tahasil-Koraput, District–Koraput of Sri Debasis Tripathy
ToR date	Yet to issued
Name of Consultant	M/s.Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar
Scrutiny fees payment details	E-chalan reference ID 35CFD4C4DF dtd. 20.11.2023 of Rs. 100000/-
Payment details of plantation cost	Not Required

Proposal in brief:

The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference for environmental clearance for M/s Renewable Envirogic Private Limited of Common Biomedical Waste Treatment Facility (CBWTF) At: Khata No.18, Plot No. 134, Mouza- Padmapur, Tahasil - Koraput, District – Koraput of Sri Debasis Tripathy.
3. **Category**: The proposed project of setting up of Common Biomedical Waste Treatment Facility (CBWTF) falls under Category B1, schedule 7(da) as per the EIA notification, 2006 and after the subsequent amendments made in 2009 and 2015.
4. **Location and connectivity**: The proposed site is located in plot area of 1.44Acres, KhataNo.18, Plot No. 134, Mouza- Padmapur, Tahasil - Koraput, District – Koraput, State Odisha. The project is a part of the Survey of India Toposheet No. F44T14 & F44T15. The geo-coordinates of the project is - Latitude 18° 47' 29.2164" N and Longitude 82° 47' 59.658" E. Nearest railway station is Koraput Junction- 8.3 km (sw); Nearest National highway is NH- 43 is about 1.4 km in S direction; Nearest airport is Jeypore airstrip - 28 km. Nearest habitation are Village-Padampur-0.63 KM-S and Koraput Town-9.4 km (NW). Nearest Rivers / streams/ Water Bodies are Kolab Reserver-4.25 km(S) and Mukhnajorhi Nalla-4.7 km (NE). Nearest forests are Anigurha Reserve forest-2.3 km(NNW) and Naranga RF-4.7(NNE)
5. **Baseline study period**: Baseline monitoring period is from Oct-2023 to Dec 2023.
6. **Proposed Plant Capacity** –

   Incinerator: 250 Kg/ hr - 1 number+ 1 (For Future)

   Autoclave: 300 kg/batch

Shredder: 300 kg/hr
Effluent Treatment Plant (ETP): 10 KLD
Total estimated waste 5 TPD generated from about 10,000 beds @ 300~500 gm/bed.
Proposed CBMW TFCapacity-5 TPD
Incinerable waste = 40~50% of total waste = 2.0~2.5 TPD
Operating hours =8 to 10 hrs/day

7. **Treatment Technology**:

EQUIPMENT	PURPOSE	Capacity	Number (s)
Incinerator With APCD & continuous Emission Monitoring instrument	The primary purpose of incineration is to burn the waste to ashes through a combustion process. The purpose of primary chamber of the incinerator would be combustion of the waste materials into safe end products (ash). The purpose of the secondary chamber would be to burn off gases and ensure safe end products (gaseous).	250 kg/hr	2
Autoclave	The proposed autoclave is a high pressure high vacuum steam sterilizer. This technique uses mechanical air removal with the help of vacuum pump and offers several advantages over standard sterilization cycle such as: Nearly 100% air removal from sterilization chamber. Vacuum drying at the end of sterilization hold period ensures drying of the material which has been sterilized.	300 kg/hr	1
Shredder	Shredder will be installed by the side of Autoclave for immediate shredding of sterilized materials to complete the cycle of operation of disinfection and segregation for reuse/recycle.	300 kg/hr	1
Effluent Treatment Plant	The Effluent Treatment Plant will be an integral part of the plant as it will treat the waste water generated from the treatment of biomedical waste during incineration, autoclaving, washing of floors, vehicle wash platform, etc.	10 KLD	1
Transportation Vehicle	GPS enabled closed container Vehicles will be employed for transporting waste from common collection point to the facility.	Model: TATA Ace Gold	3

8. **Water requirement**: Total water requirement for the CBWTF project is 18.5 KLD which will be sourced from bore wells & water tankers. The daily fresh water requirement would be12.5 KLD and

recycled water would be 6 KLD. A rainwater harvesting system will be also be set up at the plant to ensure better water management.

Sr. No.	Details	Consumption (KLD)
1	Process requirement (Incineration, Cleaning of storage area, Autoclave, Shredder)	7.5
2	Domestic Requirement	1.5
3	Reuse (in Venturi Scrubber, Incineration process)	6.0
4	Greenbelt	1.5
5	Vehicle Wash	2
	Total	18.5

9. **Wastewater management**: Wastewater generated from the treatment of biomedical waste during incineration, autoclaving, washing of floors, vehicle wash platform, etc. will be treated in the Effluent Treatment Plant (capacity 10 KLD). The treated water would be recycled in the plant to reduce the amount of water used.
10. **Solid Waste generation:** Ash - 100 - 150 kg/day and Other Residues - 10 - 20 kg/day
11. **Power requirement**: DG set of 125.0 KVA is proposed for the project and 100 KW at 11 KV lines will be taken from State Electricity Board.
12. **Manpower**: Total about 30 persons are proposed to be hired for plant operations including officers, skilled and unskilled workers.

SL. NO.	JOB PROFILE	NO. OF PERSONS
1.	Project/ Plant Manager	1
2.	Chief Operator of Equipment	2
3.	Assistant Operators	5
4.	Office Staff including marketing people	6
5.	Drivers	3
6.	Helpers with the Vehicles	3
7.	Workers on the Floor at the Facility	6
8.	Security Personnel	4
	Total	30

13. **Project cost:** The Estimated cost of the project is approx. 178.2 Lakhs.
14. **Environment Consultant**: The Environment consultant **M/S Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee.
15. The SEAC in its meeting held on dated **27-12-2023** recommended the following.

A. The proponent may be asked to submit the following before consideration of ToRs:

i) The proposed site is located within 75 K.M. from another proposed CBWTF. As per CPCB guidelines, this proposed CBWTF does not meet the siting criteria. The PP has to clarify as to why this proposal shall not be rejected due to non-confirming to the siting criteria. A detailed write up in this regard shall be submitted.

ii) Land documents and kisam of land.

B. Following specific ToRs to be issued if decided to issue ToRs:

i) Permission from the panchayat and ROW documents for connecting 240meters of land from project site to nearest approach road through the nearby village area.

ii) Submit details of amount of waste to be generated from the hospitals on the per day basis rather than calculating on number of beds.
iii) Submit aerial distance certificate from the nearby biomedical waste treatment facilities.
iv) Precautionary measures to be undertaken to avoid contamination of wastes or due to surface runoff from project site to the nearby water reservoir.
v) Submit a Standard Operating Protocol starting from collection point of waste generation/raw material, segregation, transportation, treatment and disposal of waste generated from plant.
vi) The baseline monitoring should also include biological parameters and baseline study should also cover the monsoon period.
vii) The storage sheds provided for the biomedical waste should be covered.
viii) Provide a buffer zone of 5km around the proposed site.
ix) Submit a write up on the amount of segregated waste to be handled at the project site monthly and annually.
x) Avoid using transport route passing through the village.
xi) SOP/measures to be followed for safety and health issues (due to handling of hazardous waste materials) of employees and local people of nearby villages.
xii) Area details to be cover for collection of waste materials/raw materials.
xiii) Agreement papers or MoU with dealers for disposal of waste generated and its management.
xiv) Category wise list of wastes to be handled.

16. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
i)	The proposed site is located within 75 K.M. from another proposed CBWTF. As per CPCB guidelines, this proposed CBWTF does not meet the siting criteria. The PP has to clarify as to why this proposal shall not be rejected due to non-confirming to the siting criteria. A detailed write up in this regard shall be submitted.	• Since it is mandated by CPCB that all biomedical waste generated from HCF is to be disposed as per CPCB Guidelines 2016. As per available data there are 6000 beds in government health care facilities in these districts (i.e. Kendrapara, Dhenkanal, Angul, Kendujhar).The present waste generated from such Government HCFs is not being treated and disposed as per CPCB rules and guidelines as no CBWTF is catering to these HCFs. • Considering the WHO standard of 3.5 beds per 1000 population, all districts are short of the required number of beds for patients (i.e. 88% bed gap). After 5 to 6 years the number of beds will increase by 2 to 3 times ie 30,000 beds will be provided in and around the 75 km buffer area. With the above background and keeping in mind the current demand and potential requirement for the next 2-5 years, we intend to set up 1 CBWTF at IDCO, Chaudar to meet the new bio-medical waste management requirements having capacity 5000 kg/day. The 75 km radius of the proposed project includes the districts of Dhenkanal, Angul, Jajpur, Bhadrak, Nayagarh, Khorda Keonjhar, Kendrapara, Jagatsinghpur and Puri • At present there is one CBWTF run and operated by M/s Saniclean Pvt Ltd with its plant set up at Tangia Pada, Khurda without having Environment Clearance (plant was set up before 2006 notification). Only CTO was recevied

		having capacity-3600 KG/Day. Which is not sufficient to cater the Biomedical waste generate from 75 km buffer area. Since there is huge presence of private sector HCFs at Khurda and Cuttack districts, this CBWTF is unable to cater to all the HCFs which are located at Cuttack, Khurda and another adjacent district. As per the CPCB guidelines one CBWTF can only manage wastes of 10,000 beds and not more than that. so new CBWTF is required in this scenario, proposed CBWTF is capacity to handel 5 tan /day and it will expandable in future, it was found that there are so many leftover HCFs and they are not able to treat and manage their wastes despite willingness and good intention. • This proposed CBWTF will be located at Chowdar, as it is very strategically placed and very nearer to 3-4 districts of Odisha which can easily cater to the needs of the catchment area. Moreover, it will address the current gap & absorb all feature load of HCFS For this we have already acquired land of 1.6 Acres and we are ready to bear all part of the capital investments that are required as per CPCB guidelines and Rules. • Another proposal was submitted having proposal no. SIA/OR/INFRA2/456045/2023 on dated 08.01.2024 which comes 35 km distance from our project site (after submission of our proposal). • Distance of all CBWTF of Odisha is attached As **Annexure-1.**
ii)	Land documents and kisam of land.	Required documents are attached as **Annexure.-2**

2. **Whether SEAC recommended the proposal** – The proposal was placed in the SEAC meeting held on 29.04.2024 and the after detailed discussion, the SEAC recommended to return the proposal to SEIAA, Odisha with a request to seek clarification from CPCB, Delhi whether EC can be granted to this CBWTF as per clarification given by the project proponent indicating that there is requirement of another CBWTF looking to the demand of the present scenario.
3. The proposal was placed in 168th SEIAA meeting held on 24.06.2024 & 25.06.2024. After detailed deliberations in the matter, the Authority decided to issue a letter to MoEF & CC, Govt. of India regarding clarification in respect to distance criterial of one Common Bio-Medical Waste Treatment Facility (CBWTF) to another. Accordingly, the proposal was deferred for further consideration. In the meantime, a meeting was on 09.07.2024 at SEIAA, Odisha Office regarding discussion of establishment of CBWTF in different districts of Odisha as per the guidelines on siting criteria issued by CPCB. In this meeting DR. K.Murgesan, Member Secterary, SEIAA, Sri Biswajit Mohanty, Member SEIAA, Sri S.K. Mishra, DMET, Govt. of Odisha, Dr. B. K. Mohapatra, DHS, Govt. of Odisha, Dr. Arghya Pradhan, AD(BMWM)I/C, Govt. of Odisha, Sri Sauya kanta Patro, MGT-Consultant, BMWM under Chairmanship of Sri Sisir Kumar Ratho, Chairman, SEIAA. It is dicided that:
    i) EC may be granted for one CBWTF with adequate treatment capacity covering at least two neighbouring districts to cater treatment services to the HCFs located in the respective district.
    ii) Cuttack and Bhubaneswar cluster is going to have more than 10000 beds and therefore another CBWTF may be allowed for issue of EC.

iii) The Eight district i.e. Balasore, Mayurbhanj, Keonjhar, Koraput, Rayagada, Balangir, Nabarangpur and sambalpur do not have CBWTF, which may be considered for issue of EC.
iv) The establishment of Koraput, CBWTF can be considered taking the revised guidelines of Common Biomedical Waste Treatment Facility, Rules, 2016.

Decision of Authority: TOR Approved

The Authority considered the Minutes of the meeting of SEIAA held on 09.07.2024 regarding the establishment of CBWTF in different Districts of Odisha as per the guidelines on siting criteria issued by CBCB and the provisioning of CBWTF is eight Districts of Odisha with the present proposal being at Koraput. After detailed deliberation in the matter, the SEIAA decided to approve the ToR with standard and specific conditions for establishment of CBWTF at Koraput.

APPROVED BY

Member Secretary, SEIAA | **Member, SEIAA** | **Chairman, SEIAA**

PARIVESH 1.0, AGENDA No.175.02	
Proposal No.	SIA/OR/INFRA2/451009/2023
Date of application	10.11.2023
File no.	451009/15-INFRA2/11-2023
Project Type	Proposal for ToR
Category	B1
Project/Activity including Schedule No.	7(da) Bio-Medical Waste Treatment Facilities
Name of the Project	ToR Proposal of M/s. Renewable Envirogic Private Limited for Common Biomedical Waste Treatment Facility (CBWTF) over an area 1.520 acres located at: IDCO Plot No. 8, in industrial Estate Choudwar, Dist-Cuttack of Sri Debasis Tripathy
Name of the company/Organization	Renewable Envirogic Private Limited
Location of Project	IDCO Plot No. 8, in industrial Estate Choudwar, Dist- Cuttack
ToR date	Yet to issued
Name of Consultant	M/s.Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar
Scrutiny fees payment details	Reference ID No. 35CECAD34C dated 02.11.2023 of Rs. 100000/-
Payment details of plantation cost	Not Required

Proposal in brief:

The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. This proposal is for Terms of Reference of M/s. Renewable Envirogic Private Limited for Common Biomedical Waste Treatment Facility (CBWTF) over an area 1.520 acres located At:IDCO Plot No. 8,in Industrial Estate Choudwar, Dist- Cuttack of Sri DebasisTripathy.
3. **Category**: This project falls under Category "B" of Project activity 7 (da)- Development of Common Bio Medical Waste Treatment Facility projects as per EIA Notification dated 14th Sept, 2006 as its amendments.
4. **Location and connectivity:** The proposed project is located at Plot No. 08, Chawduar,Dist-Cuttack, State-Odisha. The geographical co-ordinates of project site are 20.541306°N and 85.870400°E. It falls under Topo sheet no.: F44T14 & F44T15. The nearest habitation is Village-Banipadai-0.50 KM-NE, Village-Gopalpur-1.5km-SE, Village-Sasanga-2.58Km-NW. The nearest highway is NH- 55 is about 2km in south direction. The nearest Railway Station is Charbatia Railway station is about 5.14 km in NE direction. The nearest Airport is BijuPatnaik Airport, Bhubaneswar is about 32 km in SE direction. The nearest water bodies are Mahanadi River -3.77 km (S), Chattisha lake-(>200 m) (SW), SingliJhor (1.16 Km (SW). The nearest reserve forests are Charbatia RF- 3.40 km (NE,Baula RF-4.85 km (SW),Sunimuhan RF-6.75 km (SW).
5. There are no National Park/Wildlife Sanctuary/ Eco-sensitive zone located within 10 km radius of the Project Site.
6. **Baseline study conducted:** Baseline study is being conducted from Oct-2023 to Dec 2023 Locations within 10 Km study area according to the CPCB guidelines in Core zone and Buffer zone area.

7. **Water requirement:** Total Water requirement for the proposed CBWTF project is 15 KLD and daily fresh water requirement is 7.5 KLD for Domestic and Processing including Vehicle washing and Plantation purposes. The water requirement will be met through bore wells.

Sr. No.	Details	Consumption (KLD)
i)	Process requirement (Incineration, Cleaning of storage area, Autoclave, Shredder)	7.5
ii)	Domestic Requirement	2.0
iii)	Plantation and Greenbelt, Vehicle Washing & Floor washing	5
	Total	**14.5**

8. **Wastewater details:** Waste water generated from the treatment of biomedical waste during incineration, autoclaving, washing of floors, vehicle wash platform, etc. will be treated in the Effluent Treatment Plant (capacity 10 KLD). The treated water would be recycled in the plant to reduce the amount of water used.
9. **Power requirement:** Total power requirement for the proposed project would be 100 KW at 11 KV lines which will be sourced from State Electricity Board. Additionally, 1 no. of DG set of 125.0 KVA is proposed for the project.
10. **Rainwater harvesting details**: A rainwater harvesting system will be also be set up at the plant to ensure better water management.
11. **Solid waste generation:**

Type of Waste Generated	Quantity
Ash	100 - 150 kg/day
Other Residues	10 - 20 kg/day

12. **Mitigation of solid waste produced:** ash from incinerator and other residue materials generated from the process are collected in bags, temporarily stored in storage shed and finally disposed in secured landfill.
13. **Greenbelt development:** Green belt will be developed over 33 % of the total land will be the greenbelt area i.e. 0.503 acres.
14. **Total Employment**: During the operational phase 30 persons (Direct + Indirect) & during construction phase local people will be hired.
15. **Project cost**: The estimated project cost is ₹400 Lakh i.e. ₹ 4 Crore.
16. **Environment Consultant**: The Environment consultant **M/s.Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee.
17. The SEAC in its meeting held on dated **01-12-2023** decided to take the decision on the proposal after receipt of the following from the proponent:

A. **The proponent may be asked to submit the following for further processing of ToR application:**
   i) The proposed site is located within 75 K.M. from another existing CBWTF. As per CPCB guidelines, this proposed CBWTF does not meet the siting criteria. The PP has to clarify as to why this proposal shall not be rejected due to non-confirming to the siting criteria. A detailed write up in this regard shall be submitted.
   ii) Land documents and kisam of land.

B. **If decided to issue ToRs, following specific ToRs may be prescribed while issue of Terms of References.**
   i) Permission from Aviation Research Centre, Charbatia, Cuttack for stack height and all other statutory clearances shall be obtained.
   ii) Detailed write up on the handling of bio medical waste (segregation, process followed and disposal of waste).
   iii) Submit a detailed layout of the proposed project showing all process, materials storage, and handling units.

iv) Precautionary measures to be undertaken to prevent contamination of soil and water from the raw material storage area due to leaching.
v) Brief write up on surface run off management with drainage map.
vi) Submit the water balance break-up and where the cooling water is to be used.
vii) Submit the coverage area details as it is Notified Industrial Area.
viii) SOP for Biomedical waste management for workers involved in segregation and waste handling.
ix) Regarding disposal of the incinerator ash submit supporting documents like MoU with private agencies.
x) The ETP should have provision to take care of wastewater being contaminated with biomedical wastes.

18. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
i.	The proposed site is located within 75 K.M. from another existing CBWTF. As per CPCB guidelines, this proposed CBWTF does not meet the siting criteria. The PP has to clarify as to why this proposal shall not be rejected due to non-confirming to the siting criteria. A detailed writeup in this regard shall be submitted.	• Since it is mandated by CPCB that all biomedical waste generated from HCF is to be disposed as per CPCB Guidelines 2016. As per available data there are 6000 beds in government health care facilities in these districts (i.e. Kendrapara, Dhenkanal, Angul, Kendujhar). The present waste generated from such Government HCFs is not being treated and disposed as per CPCB rules and guidelines as no CBWTF is catering to these HCFs. • Considering the WHO standard of 3.5 beds per 1000 population, all districts are short of the required number of beds for patients (i.e. 88% bed gap). After 5 to 6 years the number of beds will increase by 2 to 3 times ie 30,000 beds will be provided in and around the 75 km buffer area. With the above background and keeping in mind the current demand and potential requirement for the next 2-5 years, we intend to set up 1 CBWTF at IDCO, Chaudar to meet the new bio-medical waste management requirements having capacity 5000 kg/day. The 75 km radius of the proposed project includes the districts of Dhenkanal, Angul, Jajpur, Bhadrak, Nayagarh, Khorda Keonjhar, Kendrapara, Jagatsinghpur and Puri • At present there is one CBWTF run and operated by M/s Sani clean Pvt Ltd with its plant set up at Tangia Pada, Khurda without having Environment Clearance (plant was set up before 2006 notification). Only CTO was recevied having capacity-3600 KG/Day. Which is not sufficient to cater the Biomedical waste generate from 75 km buffer area. Since there is huge presence of private sector HCFs at Khurda and Cuttack districts, this CBWTF is unable to cater to all the HCFs which are located at Cuttack, Khurda and another adjacent district. As per the CPCB guidelines one CBWTF can only manage wastes of 10,000 beds and not more than that. so new CBWTF is required in this scenario, proposed CBWTF is capacity to handel 5 tan /day and it will expandable in future, it was found that there are so many leftover HCFs and they are not able to treat and manage their wastes despite willingness and good intention. • This proposed CBWTF will be located at Chowdar, as it is very strategically placed and very nearer to 3-4 districts of Odisha which can easily cater to the needs of the catchment

			area. Moreover, it will address the current gap & absorb all feature load of HCFS For this we have already acquired land of 1.6 Acres and we are ready to bear all part of the capital investments that are required as per CPCB guidelines and Rules. • Another proposal was submitted having proposal no. SIA/OR/INFRA2/456045/2023 on dated 08.01.2024 which comes 35 km distance from our project site (after submission of our proposal). • Distance of all CBWTF of Odisha is attached As **Annexure-1**.
	ii.	Land documents and kisam of land	Required documents are attached as **Annexure -2**

2. **Whether SEAC recommended the proposal –** The proposal was placed in the SEAC meeting held on 29.04.2024 and the after detailed discussion, the SEAC recommended to return the proposal to SEIAA, Odisha with a request to seek clarification from CPCB, Delhi whether EC can be granted to this CBWTF as per clarification given by the project proponent indicating that there is requirement of another CBWTF looking to the demand of the present scenario.
3. The proposal was placed in 168th SEIAA meeting held on 24.06.2024 & 25.06.2024. After detailed deliberations in the matter, the Authority decided to issue a letter to MoEF & CC, Govt. of India regarding clarification in respect to distance criterial of one Common Bio-Medical Waste Treatment Facility (CBWTF) to another. Accordingly, the proposal was deferred for further consideration. In the meantime, a meeting was on 09.07.2024 at SEIAA, Odisha Office regarding discussion of establishment of CBWTF in different districts of Odisha as per the guidelines on siting criteria issued by CPCB. In this meeting DR. K. Murgesan, Member Secterary, SEIAA, Sri Biswajit Mohanty, Member SEIAA, Sri S.K. Mishra, DMET, Govt. of Odisha, Dr. B. K. Mohapatra, DHS, Govt. of Odisha, Dr. Arghya Pradhan, AD(BMWM)I/C, Govt. of Odisha, Sri Sauya kanta Patro, MGT-Consultant, BMWM under Chairmanship of Sri Sisir Kumar Ratho, Chairman, SEIAA. It is dicided that:
    i) EC may be granted for one CBWTF with adequate treatment capacity covering at least two neighbouring districts to cater treatment services to the HCFs located in the respective district.
    ii) Cuttack and Bhubaneswar cluster is going to have more than 10000 beds and therefore another CBWTF may be allowed for issue of EC.
    iii) The Eight district i.e. Balasore, Mayurbhanj, Keonjhar, Koraput, Rayagada, Balangir, Nabarangpur and sambalpur do not have CBWTF, which may be considered for issue of EC.
    iv) The establishment of Koraput, CBWTF can be considerd taking the revised guidelines of Common Biomedical Waste Treatmnet Facility, Rules, 2016.

Decision of Authority: TOR Approved

The Authority observed that one facility in SCB Medical College is existing for meeting their own requirement for disposal of Common Biomedical Waste and there is no other facility which exists in Cuttack & Bhubaneswar. In view of rapid urbanization and for better management of biomedical waste, the authority decided to approved the ToR with standard and specific conditions at Choudwar Cuttack.

APPROVED BY

Member Secretary, SEIAA **Member, SEIAA** **Chairman, SEIAA**

PARIVESH 1.0, AGENDA No.175.03	
Proposal No.	SIA/OR/INFRA2/443135/2023
Date of application	10.11.2023
File no.	443135/598-INFRA2/11-2023
Project Type	New EC proposal
Category	B1
Project/Activity including Schedule No.	7(da) Bio-Medical Waste Treatment Facilities
Name of the Project	Proposal for EC for Proposed Common Biomedical Waste Treatment Facility (CBWTF) at Plot no. 155/1020 and 15/1025, Village: Jamapalli, Tehsil: Binika, District: Subarnapur, State: Odisha by M/s Bio-Tech Solutions.
Name of the company/Organization	Bio-tech Solutions Rajendra Kumar Sahu, Managing Partner
Location of Project	Village: Jamapalli, Tehsil: Binika, District: Subarnapur, State: Odisha
ToR Date	28.07.2022
Name of the Consultant	M/s. Gaurang Environmental Solutions Pvt. Ltd, Jaipur
Scrutiny fees payment details	
Payment details of plantation cost	Not Required

Proposal in brief: The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

1. This proposal is for Environmental Clearance of M/s. Bio-Tech Solutions for Common Biomedical Waste Treatment Facility (CBWTF) at Plot no. 155/1020 and 15/1025, Village: Jamapalli, Tehsil: Binika, District: Subarnapur of Sri Rajendra Kumar Sahu.
2. **Category**: This project falls under Category "B" of Project activity 7 (da) - Development of Common Bio Medical Waste Treatment Facility projects as per EIA Notification dated 14th Sept, 2006 as its amendments.
3. **TOR details**: Terms of Reference was issued by SEIAA, Odisha vide letter No. 4959/SEIAA dated 28.07.2022 for the proposed project.
4. **Location and connectivity:** The proposed project is located at Plot No. 155/1020 and 15/1025, Village: Jamapalli, Tehsil: Binika, District: Subarnapur, State: Odisha. The geographical co-ordinates of project site are 21° 5'20.87"N to 21° 5'21.12"N and 83°45'41.75"E to 83°45'45.60"E. it falls under Toposheet no.: 64O12, 64O16, 64P9 & 64P13. The nearest residential area is Village: Jamapalli at 600 m towards SW direction and nearest town is Binika town at 10 km towards SSE direction. The nearest highway is NH-126A at a distance of 1.18 Km in North Direction. The nearest Railway Station is Dungripalli Railway Station at a distance of 22.0 Km in West direction. The nearest Airport is Veer Surendra Sai Airport, Jharsuguda at 96 KM NNE direction & Biju Patnaik International Airport, Bhubaneswar at 232Km SE direction. The nearest water bodies are Jira River: 5.0 Km NE Direction, Mahanadi River: 7.5 Km SE Direction and Choki Nala: 7.5 Km S Direction. The nearest reserve forest is Singhijuba RF: 1.30 Km SW Direction, Ghatasan RF: 8.0 Km SE Direction and Bishalbari PF: 9.0 Km S Direction.
5. There are no National Park/Wildlife Sanctuary/ Eco-sensitive zone are within 10 km radius of the Project Site.
6. **List of Statutory Clearances:**
   a. Consent to establish has been obtained vide consent no. 6053/IIICON (NOC)/164/2021-22 dated 18.11.2021.

b. Letter from DFO obtained vide office order no. 289/4F (Misc) dated 30.11.2021.

7. **Public hearing details:** The Public hearing was conducted successfully on 28.06.2023 at 10.00AM in the weekly market ground of Sanindpur village.
8. **Baseline study conducted:** Baseline study was conducted during Pre-Monsoon season of 2022 i.e. from 1st March 2022 to 31st May 2022.
   a) **Ambient Air monitoring: -** PM_{10} is within range of 50 $\mu g/m^3$ to 70.4 $\mu g/m^3$, $PM_{2.5}$ is within range of 30.5 $\mu g/m^3$ to 44.5 $\mu g/m^3$, SO_2 is within range of 11.2 $\mu g/m^3$ to 23.7 $\mu g/m^3$ and NO_X is within range of 12 $\mu g/m^3$ to 27.3 $\mu g/m^3$.
   b) **Water quality monitoring:** The result of surface water samples collected shows that the pH varies from 7.53 to 7.79, Total Hardness varies from 197.26 to 716.82 mg/l, Total Dissolved Solids varies from 341 to 862 mg/l, BOD varies from 10.0 to 29.0 (mg/l), COD varies from 24.21 to 67.0 (mg/l). The result of ground water samples collected shows that the pH varies from 7.52 to 7.75, Total Hardness varies from 149.38 to 226.79 mg/l, Total Dissolved Solids varies from 270 to 381 mg/l and Flouride content varies from 0.2 mg /l. to 0.23 mg/l.
   c) **Ambient Noise monitoring:** Minimum and maximum noise levels recorded during the day time were from 48.86 Leq Db and 53.18 Leq Db respectively and minimum and maximum level of noise during night time were 39.76 Leq Db and 43.72 Leq Db.
   d) **Soil monitoring:** The pH of the samples ranged from 7.25 to 7.41, which is slightly to moderately alkaline, Organic matter ranges from 0.29% to 0.45%, the concentration of Nitrogen ranges from 143.56 Kg/ha to 190.84 Kg/ha, Phosphorus ranges from 11.67 Kg/ha to 27.11 Kg/ha and Potassium ranges from 176.11 Kg/ha to 201.94 Kg/ha
9. **Water requirement:** The total water requirement for the proposed project will be 9 KLD (Fresh water 5.5 KLD + Treated water 3.5 KLD). Water will be sourced from Ground Water. Out of the total water requirement 3.5 KLD will be used for washing purpose i.e. vehicle washing & area washing, 2.0 KLD will be used for the scrubber, 1.5 KLD will be used for the Domestic consumption and 2.0 KLD will be used for the Greenbelt development.
10. **Wastewater details:** Total effluent generation would be 5.0 KLD which will be treated with the help of ETP and the treated water will be used for Greenbelt development, Scrubber and Washing. Domestic waste water will be treated with the help of the Septic tank followed by Soak pit.

Sl. No.	Particulars	Water Requirement (KLD)	Fresh Water	Treated Water	Effluent Generated	Treatment
1.	Vehicle Washing	3.0	2.0	1.0	3.0	6 KLD of ETP with ZLD Concept is Proposed for Wastewater treatment
2.	Scrubber	2.0	2.0	-	2.0	
3.	Greenbelt	2.0	-	2.0	-	
4	Area Washings	0.5	-	0.5	-	
5	Domestic	1.5	1.5	-	-	Septic Tank followed By Soak pit
Total		9.0	5.5	3.5	5.0	

11. **Power requirement and solar power details:** Total power requirement for the proposed project would be approx. 150 kVA which will be sourced from TP western Odisha Distribution Limited (TPWODL). Additionally, 1 No. of DG set will be provided of capacity 75kVA to be used in case of power supply failure/emergency.

12. **Solar Power generation:** About 3000 sq. ft. roof top area will be there, which will be used for installation of solar panels for generation of 15 kVA electricity generation which will be 0.1% of the total power consumption.
13. **Rainwater harvesting details**: As the proposed facility is for management of infectious biomedical waste, there are possibilities rainwater getting contaminated at site hence rain water recharge pits shall not be installed. Proper storm water drainage system shall be laid to ensure and prevent any contamination before disposal into natural drain or collection tank for its use for washing or maintaining green areas.
14. **Solid waste generation:** Municipal Solid waste of quantity approx. 3.75 kg/day will be generated (considering 0.125 kg /person). Hazardous waste like Used oil (0.5 TPA), Incineration waste (15-20 kg/hr) and ETP sludge (80-100 kg/month) of hazardous waste will be generated.
15. **Mitigation of solid waste produced:** Municipal solid waste will be segregated into organic and inorganic waste. Organic waste will be managed by composting whereas inorganic waste will be sent to authorize waste management agency.

Schedule	Type of the Hazardous waste	Quantity	Mode of Disposal
5.1	Used Oil	0.5 TPA	Reused as lubricant in plant and machinery/ send to authorized recyclers.
36.2	Incineration Ash	15-20 Kg/hr	Send to TSDF site for land filling.
34.3	ETP Sludge	80-100 Kg/Month	Send to TSDF site for land filling.

16. **Greenbelt development:** Green belt will be developed over 33.36% area of the total plant area. Out of the 1.058 acre of the plant area, 0.353 acre will be developed for plantation. Considering 2500 nos of trees per ha, this CBWTF area will require 358 trees for raising greeneries around the unit. Hence, we are proposing total 360 trees. A budget of approx. Rs. 1.05 Lakh has been kept for green belt development.
17. **Total Employment**: Total 30 persons are proposed to hire for plant operations including officers, skilled and unskilled workers.
18. **Project cost**: The estimated project cost is 1.90 Crores and capital cost for EMP is 34.05 lakhs and recurring cost is 5.85lakhs.

Details of CER activities

Sr. No.	Activities	Budgetary Details (in lakhs)
1.	Providing infrastructure facilities such as beds, medical instruments etc. to the medical centres in Adampur government hospital	1.0
2.	Distributions of Dust Bins and arrangement of Garbage disposal to local authorities.	0.20
3.	Solar light installation at village	1.0
Total		2.20

Details of EMP activities

Sr. No.	Particulars	Capital Cost (In Lakhs)	Recurring Cost (In Lakhs)
1	Solid & Hazardous Waste management	5.0	1.5
2	Water and Waste water management	10.0	2.0
3	Air Pollution Control & Monitoring System	15.0	1.5
4	Greenbelt Development	1.05	0.35
5	Occupational Health & safety, Fire Protection measures	3.0	0.50
Total		**34.05**	**5.85**

19. **Environment Consultant**: The Environment consultant **M/s Gaurang Environmental Solutions Pvt. Ltd, Jaipur** along with the proponent made a presentation on the proposal before the Committee on 02.12.2023.
20. The SEAC in its meeting dated **02-12-2023** decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
i)	Permission from local authority for settling up of the proposed project.	Permission from the local authority i.e., Gram panchayat NOC is enclosed herewith as **Annexure 1.**	submitted
ii)	Submit a detailed layout of the proposed project showing all process, materials storage, and handling units.	Detailed plant layout demarcating the process area, entry/exist. Vehicle washing area, Greenbelt etc. has been enclosed as **Annexure 2.**	Submitted
iii)	Regarding disposal of the incinerator ash it is mentioned as landfill in the online documents. However, during the presentation it was mentioned for disposal at M/s. Re-Sustainability limited site (TSDF). The proponent needs to submit clarification in this regard.	No land filling has been proposed at the site. The Ash generated from incinerator will be handed over to the nearest TSDF site.	-
iv)	Precautionary measures shall be undertaken for protection of adjacent agricultural lands and nearby school located at 400m, distance.	Details of precautionary measures to be implemented for protection of adjacent agricultural lands and nearby school located at 400m distance are enclosed as **Annexure 3.**	complied
v)	A buffer zone of 500m needs to be demarcated around the project site as per CPCB guidelines..	Map demarcating buffer zone of 500m around the project site is enclosed as **Annexure 4.**	complied
vi)	Details of the wastewater treatment system/technology adopted with inlet and outlet water parameters.	Details of the wastewater treatment system/technology proposed to be installed along with (As it is s proposed Greenfield project) outlet water parameters are enclosed as **Annexure 5.**	complied
vii)	Precautionary measures to be undertaken during transportation of the biomedical waste as well as their storage and handling from their source of generation.	Precautionary measures proposed to br implemented for transportation of biomedical waste as well as their storage and handling from their source of generation is enclosed as **Annexure 6.**	complied
viii)	Specific measures to be followed by the M/s. Re-Sustainability limited for handling the incinerator waste for disposal.	The details of clarification for disposal of the Incineration waste at M/s Re-Sustainability limited are enclosed as **Annexure 7.**	complied
ix)	Precautionary measures followed for storing the diesel at the project site.	Diesel will be stored at project site following below mentioned precautionary measures. 1. Diesel will be stored in drums under covered storage.	-

		2. Only trained and experienced personnel will be deployed for handling operations of Diesel. 3. All safety precautions will be taken at the storage area of the Diesel. 4. Fire protection measures and fire extinguishers will be provided at the area. 5. Emergency evacuation and response plan will be made and will be implemented in case of emergencies.	
x)	The proposed site is located within 75 K.M. from another existing CBWTF at Balangir. A petition has been received from the proponent of CBWTF at Balangir not to allow this proposed CBWTF at Binika, Dist. Subarnapur as same is not confirmed to the siting criteria as per CPCB guidelines. The PP has to clarify as to why this proposal shall not be rejected due to non-confirm to the siting criteria. A detailed writeup in this regard shall be submitted.	Detailed write-up in regards of the proposed site located within 75 K.M from another existing CBWTF at Balangir is enclosed as **Annexure 8**. The project proponent has clarified the following: • Distance from other CBWTFS is not less than 70 kms. • In this point there are other CBWTFS in other states are very nearest, and those comes under same district of a state nearing about 2 kms distance on road way and those have been granted with the "Environment Clearance" for set up of CBWTF and the detailed are presented in the next points showing the nearest CBWTFS within the radius of 70 kms. On road way where the air distances will be naturally less than road ways. The next point table shows the clear idea about the nearer to nearest CBWTFs has been operating and has obtained EC.	Justification submitted

2. **Whether SEAC recommended the proposal –Yes**, the proposal was placed in the SEAC meeting held on 30.01.2024 and the SEAC After detailed discussion, the SEAC **recommended to return the proposal to SEIAA, Odisha** with a request to seek clarification from CPCB, Delhi whether EC can be granted to this CBWTF as per clarification given by the project proponent indicating that EC has been granted in other CBWTF of other State within a distance of 2 kms from another CBWTF.
3. The proposal was placed in 163rd SEIAA, Odisha meeting held on 18.04.2024 & 19.04.2024 and after detailed deliberation in the matter, the authority decided to seek clarification / information on the following:
   (i) The PP is required to explain why the application shall not be rejected in terms of the Common Biomedical Waste Treatment and Disposal Facility Guidelines, 2016 of CPCB. The PP has submitted ADS reply vide letter no. 32/BTS/2024 dt. 02.05.2024.
4. The proposal was placed in 167th SEIAA meeting held on 03.06.2024 and after detailed deliberation in the matter, the Authority decided that the proposal be referred back to SEAC for their considered views on the ADS reply of the PP accordingly, the proposal was referred back to SEACC for re-examination.
5. The proposal was placed in SEAC meeting held on 02.07.2024 and after detailed discussion, the SEAC reiterates its earlier recommendation to seek clarification from CPCB, Delhi whether EC can be granted

to its CBWTF as per clarification given by the project proponent indicating that EC has been granted in other CBWTF of other State within a distance of 2 kms from another CBWTF.

6. The proposal was placed in 173rd SEIAA meeting held on 06.08.2024 & 08.08.2024. After detailed deliberations in the matter, the Authority decided to issue a letter to MoEF & CC, Govt. of India regarding clarification in respect to distance criterial of one Common Bio-Medical Waste Treatment Facility (CBWTF) to another. Accordingly, the proposal was deferred for further consideration. In the meantime, a meeting was on 09.07.2024 at SEIAA, Odisha Office regarding discussion of establishment of CBWTF in different districts of Odisha as per the guidelines on siting criteria issued by CPCB. In this meeting DR. K.Murgesan, Member Secretary, SEIAA, Sri Biswajit Mohanty, Member SEIAA, Sri S.K. Mishra, DMET, Govt. of Odisha, Dr. B. K. Mohapatra, DHS, Govt. of Odisha, Dr. Arghya Pradhan, AD(BMWM)I/C, Govt. of Odisha, Sri Sauya kanta Patro, MGT-Consultant, BMWM under Chairmanship of Sri Sisir Kumar Ratho, Chairman, SEIAA. It is decided that:
   i) EC may be granted for one CBWTF with adequate treatment capacity covering at least two neighbouring districts to cater treatment services to the HCFs located in the respective district.
   ii) Cuttack and Bhubaneswar cluster is going to have more than 10000 beds and therefore another CBWTF may be allowed for issue of EC.
   iii) The Eight district i.e. Balasore, Mayurbhanj, Keonjhar, Koraput, Rayagada, Balangir, Nabarangpur and sambalpur do not have CBWTF, which may be considered for issue of EC.
   iv) The establishment of Koraput, CBWTF can be considerd taking the revised guidelines of Common Biomedical Waste Treatmnet Facility, Rules, 2016.

Decision of Authority: EC Approved subject to submission of information

After detailed deliberation in the matter, the authority decided that since, there is no CBWTF in the neighbouring districts like Boudh & Kandhamal, the EC proposal is granted with standard and specific conditions for setting up of the facility in Subarnapur district subject to submission of Scrutiny Fees.

APPROVED BY

Member Secretary, SEIAA | **Member, SEIAA** | **Chairman, SEIAA**