



सत्यमेव जयते

File No: AP/AK/INFRA2/O2/2024/EC/73

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority (SEIAA),  
ANDHRA PRADESH)

\*\*\*



Date 28/06/2024



To,

Mr. Sivaramakrishnan Ganesh  
RE SUSTAINABILITY LIMITED  
Re Sustainability Limited, 11th floor, Level 11 B, Aurobindo Galaxy, Hyderabad Knowledge City,  
HITECH CITY ROAD, HYDERABAD, TELANGANA, RANGA REDDY, TELANGANA, 500081  
ganesh.srk@resustainability.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/AP/INFRA2/458016/2024 dated 14/02/2024 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.	EC24B3202AP5336172N
(ii) File No.	AP/AK/INFRA2/O2/2024/EC/73
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	7(d) Common hazardous waste treatment, storage and disposal facilities (TSDFs)
(vii) Name of Project	Common Hazardous Waste Treatment Storage Disposal Facility (Landfill only)
(viii) Name of Company/Organization	RE SUSTAINABILITY LIMITED
(ix) Location of Project (District, State)	ANAKAPALLI, ANDHRA PRADESH
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

N/A

 <p>सत्यमेव जयते</p>	<p><b>State Level Environment Impact Assessment Authority (SEIAA)</b> <b>Andhra Pradesh</b> <b>Ministry of Environment, Forests &amp; Climate Change</b> <b>Government of India</b> Dr.YSR Paryavaran Bhavan, APIIC Colony Road, Gurunanak Colony, Auto Nagar, Vijayawada-520007.</p>
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REGD.POST WITH ACK.DUE

**Order No. SEIAA/AP/AK/INFRA2/02/2024/241.27/241.20**

**Sub SEIAA, A.P. – M/s. Re Sustainability Limited proposal to establish a : Common Hazardous Waste Treatment, Storage and Disposal Facility (Landfill only) at Survey No 116 Part of Thadi Village, Parwada Mandal, Anakapalli District, Andhra Pradesh - Environmental Clearance - Issued - Reg.**

1. This has reference to your EC application submitted through online on 14.02.2024 (**SIA/AP/INFRA2/458016/2024**), seeking Environmental Clearance for proposed to establish a Common Hazardous Waste Treatment, Storage and Disposal Facility (Landfill only) at Survey No 116 Part of Thadi Village, Parwada Mandal, Anakapalli District, Andhra Pradesh in favour of M/s. Re Sustainability Limited,. The nearest human habitation viz., Thadi (V) exists at a distance of about 0.8 km from the premises. The total land area is 50 acers. The capital cost of the project is Rs.200.0Crores. The details of the production capacities of the project is as follows:

**Common Hazardous Waste Treatment, Storage and Disposal Facility  
(Landfill only) with design Capacity of 3,00,000 TPA**

The proposal along with all the documents submitted by the proponent has been examined and processed in accordance with EIA Notification, 2006 and its amendments thereof. The State Level Expert Appraisal Committee (SEAC) examined the application in its meeting held on **22.02.2024**.

**Minutes of SEAC Meeting:-**

Category: B1

The proposed project is for establishment of Common Hazardous Waste Treatment, Storage and Disposal Facility (Landfill only) by M/s. Re Sustainability Limited, with design Capacity of Landfill -3,00,000 TPA at Survey No 116 Part, at Thadi Village, Parwada Mandal, Anakapalli District, Andhra Pradesh.

As per the EIA Notification S.O. 1533 (E) dated 14-09-2006 and its amendments thereof, proposed project falls under the Activity - 7(d) - Common Hazardous Waste

Treatment Storage and Disposal Facility (TSDF) having only Landfill facility is Category-B.

The project proponent and their consultant M/s. Re Sustainability Solutions Private Limited have attended the meeting. The committee noted that:

1. M/s. Re Sustainability Solutions Private Limited proposed for the establishment of Common Hazardous Waste Treatment Storage and Disposal Facility (landfill only) at Survey No 116 Part, at Thadi Village, Parwada Mandal, Anakapalli District with a project cost of Rs. 200 Crores.
2. The APIIC issued Alienation of Government land to M/s. Visakha Pharma City (erstwhile M/s. Ramky Pharmacy India Limited) measuring an extent of Ac. 50.00 cts in Sy.No. 116 part of Thadi Village, Parawada Mandal for the purpose of "Secured Landfill".
3. The APIIC vide Lr dated 17.06.2022 allotted an extent of AC 10.00 for TSDF facility and to reserve the balance land of Ac 40.00 subject to formation of the road at RPCIL cost. M/s. Re Sustainability Limited entered into a Development agreement with M/s. Visakha Pharmacy to establish, operate and maintain the TSDF facility on behalf of Visakha Pharmacy for disposal of additional waste as the existing landfill of Pharmacy has exhausted.
4. The project proponent has informed that they will develop TSDF in four phases and initially 10.0 Acres of land have been allotted for immediate development and the remaining 40.0 Acres will be developed in subsequent phases. The coverage area of the facility is to handle waste generated from VisakhaPharmacy and also from other industries within the State.
5. The proposed TSDF project is of 3,00,000 TPA capacity includes Direct to Landfill - 1,50,000 TPA and Landfill after Treatment - 1,50,000 TPA using reagents like fly ash, cement, lime based on the comprehensive analysis of the waste. The proposed project will be developed in 4 cells and the operation of the facility will be 25 years and post closure monitoring will be 25 years.
6. The Proposed Landfill is adjacent to the existing landfill of VisakhaPharma city and the committee observed that the proposed site is located on hill and also the elevation difference of top to bottom of the hill is 116 m. The project proponent informed that will develop land fill on toe/foot of the hill with 10 Ac of land.
7. The committee noted that the proposed site qualifies the criteria for development of TSDF facility as per CPCB Rejection or Knock-out criteria and also CPCB location criteria. Also, the committee noted that, NGRI after conducting detailed Geotechnical and Geo hydrological investigation indicated the suitability of the site for TSDF.
8. Also, the committee noted that APPCB, Regional Office, Visakhapatnam vide letter dt. 12.2017submitted the report to the Collector & District Magistrate

stating that the proposed site is suitable for creation of TSDF facility.

9. The committee directed the project proponent that they shall construct garland drain as suggested by the NGRI to collect the surface runoff.
10. The committee directed the project proponent that they shall ensure that all necessary precautions prescribed by CPCB are adhered to in the construction, operation, and maintenance of the TSDF.
11. The total water requirement of 15 KLD for the proposed project will be met through APIIC supply / tankers. The effluents from process and vehicle wash are proposed to be sent to CETP for further treatment and disposal.
12. The leachate generated from the landfill operations will be treated and reused in the landfill stabilization, sprinkling and the remaining leachate will be disposed through MEE & ATFD and the resultant salts will be sent to landfill to ensure Zero Liquid Discharge.
13. The SEIAA, AP granted Terms of Reference vide order dated 22.12.2023 and public hearing was conducted on 30.01.2024. The major issues raised in the public hearing are relocation of Thadi village, pollution due to existing industries, local employment, medical & health care facilities, drinking water & RO facilities.
14. The committee noted that the relocation of the Thadi village is pertaining to Government level issue and the project proponent informed that the Government of AP has already issued the GO in this regard for rehabilitation of Thadi Village and assured that they will pursue with the Govt. for rehabilitation of the village at the earliest.
15. The other issues raised in the public hearing and the action plan given by the project proponent is as follows:

<b>Issue raised in the public hearing</b>	<b>Reply / Action plan by the project proponent</b>
Pollution due to existing industries, issue related to relocation of the villages of Thadi Village	<p>Proposed project at Thadi village and the land is allotted by APIIC after consideration of recommendation from NGRI and confirmation from APPCB.</p> <p>To minimize the pollution and EMP budget of Rs 12.12 Crores has been proposed as capital cost and Rs.1.12 Crores as recurring cost for control of Air pollution, Water pollution, Soil pollution, Noise pollution, odour control, development of Greenbelt, Energy conservation measures, etc.</p>
Waste water discharge into water bodies from the existing industries, local employment, medical and health care	No wastewater discharge involved in the proposal. Process and vehicle wash effluent will be sent to CWMP CETP, the leachate will be treated and reused and any excess will be



<p>facility issues were raised</p> <p>Pollution due to existing industries, effluent discharge into water bodies</p>	<p>disposed through MEE &amp; ATFD to ensure ZLD.</p> <p>Total Rs. 250 Lakhs has been provided for CER activities which will be used for provision of medical and healthcare facility.</p> <p>Preference will be given for employment to locals</p>
<p>Demands for regular use of CER fund for health care facilities</p>	<p>For taking up CER activities and budget of Rs. 250 Lakhs has been provided. Medical assistance will also be provided by Ramky foundation as and when required.</p>
<p>Questions about site selection and pollution</p>	<p>The site is allotted by APIIC after consideration of recommendation of NGRI and confirmation from APPCB.</p> <p>Proposed project will be developed after obtaining EC from SEIAA, AP, &amp; CFE from APPCB and other mandatory permissions from statutory bodies.</p>
<p>Local employment</p>	<p>Total 50 workers during construction phase and 50 workers during operation phase will be required. Preference in employment will be given to locals as per their skills. Technical training will provide to the workers before their actual involvement at work place.</p>
<p>Status of existing health care facilities and greenbelt plan proposed</p>	<p>Health care facilities are present available in Thanam, EdulapakaBonangi, Nakkavanipalemand Agnampudi villages. Duvada PHC, Parwada PHC, Munagapaka PHC, and Ankapalli District Hospital are all government facilities available within a 5 to 10 Km radius from the proposed project site.</p> <p>Total 16.50 Acre (6.68 Ha) area covering 33% of total plot area is identified for greenbelt development. Total 6680 trees (@ 1000 tree/Ha) will be planted. Rs.17.88 Lakhs has been allotted for greenbelt development.</p>

Drinking water and RO water facility	Total Rs. 250 Lakhs has been identified for CER activities in which provision of drinking water facilities including RO installations proposed.
Issue of Ground water pollution, depletion of water table	Leachate generated in the facility will be collected and stored in Leachate Collection Pond and reused for landfill stabilization. Excess leachate will be treated using MEE and ATFD to achieve ZLD. No GW will be extracted for the project activities.

16. The base line data was collected from September, 2023 to November, 2023 and the predominant wind direction is observed to be North West to South East.
17. The project proponent informed that there is no stream passing through the proposed project site and the rain water coming from the upper regions will be diverted by providing garlanded drain around the landfill as suggested by NGRI.
18. It was also informed that for each phase of development cell, garland drain will be constructed so as to ensure that any runoff of the catchment area land fill is diverted effectively and there is no contamination of the runoff water.
19. The committee directed the project proponent that they shall construct garland drain towards hilly/ terrain portion and also directed to construct retaining wall boundary of the Phase-I i.e., towards Northwestern side to avoid overflow of garland drain in rainy season/ during cyclones.
20. The surface runoff from the hill shall not enter the landfill facility under any circumstances and the stormwater drains shall be provided with adequate size.
21. The committee directed the project proponent that the depth of the land fill site shall be based on the ground water table at the site and as permitted by the Pollution Control Board.
22. The project proponent informed that they have allocated Rs. 12.02 Crs as capital cost and Rs. 1.11 Crs as a recurring cost budget for the EMP. Also, the project proponent earmarked funds of Rs. 2.50 Crs for social development and welfare measures under CER activities in the surrounding villages towards development of education, healthcare and infrastructure facilities. The committee recommended the project proponent that they shall allot 2% of the annual profit towards CSR activities during operations as mandated by Indian Companies Act.

The Committee after examining the project proposals, presentations, MoEF&CC Notifications & OMs EIA report, Public Hearing minutes and detailed deliberations, recommended **SEIAA for issue of** Environmental Clearance to this proposed Common Hazardous Waste Treatment, Storage and Disposal Facility (Landfill only) by M/s. Re Sustainability Limited., with

design Capacity of 3,00,000 TPA and with following conditions:

1. The project proponent shall comply with the proposals furnished in the Environmental management plan & EIA report.
2. The project proponent shall comply with the criteria for hazardous waste landfills issued by CPCB vide HAZWAMS/17/2001.
3. The project proponents shall adhere to all conditions as prescribed in the Protocol for 'Performance Evaluation and Monitoring of the Common Hazardous Waste Treatment, Storage and Disposal Facilities' published by the CPCB in May, 2010.
4. The project proponent shall ensure that all necessary precautions prescribed by CPCB are adhered in the construction, operation, and maintenance of the TSDF.
5. The Project proponent should ensure that the TSDF fulfils all the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and amendments thereof.
6. The project proponent shall comply with the recommendations of the NGRI based on their Geotechnical & Geo hydrological investigations including the construction of garland drain to collect the surface runoff.
7. The project proponent should handle the waste generated from the member units only.
8. The project proponent shall keep Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board / CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.
9. The project proponent shall construct garland drain towards hilly/ terrain portion and also shall construct retaining wall boundary of the Phase-I i.e., towards Northwestern side to avoid overflow of garland drain in rainy season/ during cyclones.
10. The surface runoff from the hill shall not enter the landfill facility under any circumstances and the stormwater drains shall be provided with adequate size
11. Ambient air quality monitoring shall be carried out in and around the landfill site at up wind and downwind locations.
12. The depth of the land fill site shall be decided based on the ground water table at the site and may be such as permitted by the Pollution Control Board.
13. Environmental Monitoring Programme shall be implemented as per EIA report and guidelines prescribed by CPCB for hazardous waste facilities. Periodical ground water/soil monitoring to check the contamination in and around the site shall be carried out.
14. The Company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.
15. On line real time continuous monitoring facilities shall be provided as per the CPCB or State Board Directions.

- 16.No non-hazardous wastes, as defined under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, shall be handled in the premises.
- 17.Gas generated in the Land fill should be properly collected, monitored and flared.
- 18.The Project Proponent shall develop green belt with native plant species that are significant and used for the pollution abatement. At least 10 m thick greenbelt shall be developed in the periphery of hazardous waste facility.
- 19.It shall be ensured that all the trees and other plantation are of the non-edible varieties and do not in any way encourage the incorporation of toxic materials in the food chain.
- 20.Project should ensure that the site is properly cordoned off from general movement and no unauthorized person or goods permitted to enter the premises. Necessary security provision should be made as a condition in the Authorisation under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 to prevent unwanted access.
- 21.Pre-medical check-up to be carried out on workers at the time of employment and regular medical record to be maintained.
- 22.Emergency plan shall be drawn in consultation with SPCB/CPCB and implemented in order to minimize the hazards to human health or environment from fires, explosion or any unplanned sudden or non- sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water.
- 23.Rain water runoff from the landfill area shall be collected and treated in the effluent treatment plant.
- 24.The project proponent shall not extract ground water.
- 25.The facility shall store the waste in lined containers solely for the purpose of the accumulation of quantities of hazardous waste as necessary to facilitate proper recovery, treatment or disposal for which economically viable treatment/disposal techniques are presently not available at or outside the facility.
- 26.Each container shall be clearly marked to identify its contents and the date(s) of accumulation at the facility and such information for each consignment is recorded and maintained in the operating records at the facility.
- 27.The facility shall comply with the guidelines issued by MoEF&CC for storage and handling of hazardous waste by the TSDFs.
- 28.The facility shall carryout finger print analysis for hazardous waste before sending the waste for disposal into the landfill according to the identified path by the facility.
- 29.The capping of the landfill should be as per CPCB guidelines comprise of i) 150-mm soil cover, ii) 150-mm Gas collection layer, iii) a clay cap – 600mm thick with permeability  $<10^{-9}$ m/s, iv) 1.5 mm HDPE with permeability  $<10^{-14}$  m/s, v) a geo Textile, vi) 200-mm Drainage media, vii) 300-mm top soil, viii) 300-mm vegetative soil and ix) Vegetation with well-prepared skirting storm water drainage all around the landfill facility with retention pond.
- 30.The facility shall create Escrow Account as per CPCBs guidelines and shall deposit 5% of the annual turnover of land fillable waste towards the Escrow



- Account to monitor the facility at least for a period of 30 years from the closure.
31. The facility shall prepare emergency preparedness plan covering identifying potential risk, establishing emergency response team, develop communication protocols, create emergency procedures, provide training & drills, coordinating external agencies, develop continuity plans, details of drainage pattern in 5km radius of the project etc, before operation of the facility.
  32. The project proponent shall comply with the assurances / action plan given on the objections raised in the public hearing.
  33. The project proponent shall ensure issue of notification by the Government declaring 500m around landfill boundary as non-development buffer zone as stipulated in the CPCB criteria for Hazardous waste land fill.

The committee in the appraisal report clearly stated that they have examined the Form-I/II, PFR/DPR and EMP & EIA for compliance by the proponent.

The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on **15.03.2024** examined the proposal and the recommendations of SEAC and decided to accept SEAC recommendations aforesaid for strict compliance by the proponent and to issue EC for Common Hazardous Waste Treatment, Storage and Disposal Facility (Landfill only) with design Capacity of 3,00,000 TPA. The SEIAA, **A.P hereby accords Environmental Clearance to the project** as mentioned at Para no. I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following special, specific and general conditions:

**Part A: Special Conditions:**

1. The proposal shall not attract the following Acts & Rules:
  - a. Forest Conservation Act, 1980;
  - b. Wild Life (Protection) Act,1972;
  - c. CRZ Notification, 2011;
  - d. The Eco sensitive areas as notified under Environment (Protection) Act,1986;
  - e. Critically polluted areas as notified by CPCB and also shall not harm livestock and human beings and disturb their activities.
2. The project proponent volunteered to allocate Rs. 12.02 Crs as capital cost and Rs. 1.11 Crs as a recurring cost budget for the EMP. Also, the project proponent earmarked funds of Rs. 2.50 Crs for social development and welfare measures under CER activities in the surrounding villages towards development of education, healthcare and infrastructure facilities. The committee recommended the project proponent that they shall allot 2% of the annual profit towards CSR activities during operations as mandated by Indian Companies Act.
3. The project proponent shall comply with the proposals furnished in the Environmental management plan & EIA report.

4. The project proponent shall comply with the criteria for hazardous waste landfills issued by CPCB vide HAZWAMS/17/2001.
5. The project proponents shall adhere to all conditions as prescribed in the Protocol for 'Performance Evaluation and Monitoring of the Common Hazardous Waste Treatment, Storage and Disposal Facilities' published by the CPCB in May, 2010.
6. The project proponent shall ensure that all necessary precautions prescribed by CPCB are adhered in the construction, operation, and maintenance of the TSDF.
7. The Project proponent should ensure that the TSDF fulfils all the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and amendments thereof.
8. The project proponent shall comply with the recommendations of the NGRI based on their Geotechnical & Geo hydrological investigations including the construction of garland drain to collect the surface runoff.
9. The project proponent should handle the waste generated from the member units only.
10. The project proponent shall keep Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board / CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.
11. The project proponent shall construct garland drain towards hilly/ terrain portion and also shall construct retaining wall boundary of the Phase-I i.e., towards Northwestern side to avoid overflow of garland drain in rainy season/ during cyclones.
12. The surface runoff from the hill shall not enter the landfill facility under any circumstances and the stormwater drains shall be provided with adequate size
13. Ambient air quality monitoring shall be carried out in and around the landfill site at up wind and downwind locations.
14. The depth of the land fill site shall be decided based on the ground water table at the site and may be such as permitted by the Pollution Control Board.
15. Environmental Monitoring Programme shall be implemented as per EIA report and guidelines prescribed by CPCB for hazardous waste facilities. Periodical ground water/soil monitoring to check the contamination in and around the site shall be carried out.
16. The Company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.
17. On line real time continuous monitoring facilities shall be provided as per the CPCB or State Board Directions.
18. No non-hazardous wastes, as defined under the Hazardous and Other Wastes

(Management and Transboundary Movement) Rules, 2016, shall be handled in the premises.

19. Gas generated in the Land fill should be properly collected, monitored and flared.
20. The Project Proponent shall develop green belt with native plant species that are significant and used for the pollution abatement. At least 10 m thick greenbelt shall be developed in the periphery of hazardous waste facility.
21. It shall be ensured that all the trees and other plantation are of the non-edible varieties and do not in any way encourage the incorporation of toxic materials in the food chain.
22. Project should ensure that the site is properly cordoned off from general movement and no unauthorized person or goods permitted to enter the premises. Necessary security provision should be made as a condition in the Authorisation under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 to prevent unwanted access.
23. Pre-medical check-up to be carried out on workers at the time of employment and regular medical record to be maintained.
24. Emergency plan shall be drawn in consultation with SPCB/CPCB and implemented in order to minimize the hazards to human health or environment from fires, explosion or any unplanned sudden or non- sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water.
25. Rain water runoff from the landfill area and other hazardous waste management area shall be collected and treated in the effluent treatment plant.
26. The project proponent shall not extract ground water.
27. The facility shall store the waste in lined containers solely for the purpose of the accumulation of quantities of hazardous waste as necessary to facilitate proper recovery, treatment or disposal for which economically viable treatment/disposal techniques are presently not available at or outside the facility.
28. Each container shall be clearly marked to identify its contents and the date(s) of accumulation at the facility and such information for each consignment is recorded and maintained in the operating records at the facility.
29. The facility shall comply with the guidelines issued by MoEF&CC for storage and handling of hazardous waste by the TSDFs.
30. The facility shall carryout finger print analysis for hazardous waste before sending the waste for disposal into the landfill according to the identified path by the facility.
31. The capping of the landfill should be as per CPCB guidelines comprise of i) 150-mm soil cover, ii) 150-mm Gas collection layer, iii) a clay cap – 600mm thick with permeability <math><10^{-9}</math>m/s, iv) 1.5 mm HDPE with permeability <math><10^{-14}</math>

- m/s, v) a geo Textile, vi) 200-mm Drainage media, vii) 300-mm top soil, viii) 300-mm vegetative soil and ix) Vegetation with well-prepared skirting storm water drainage all around the landfill facility with retention pond.
- 32.The facility shall create Escrow Account as per CPCBs guidelines and shall deposit 5% of the annual turnover of land fillable waste towards the Escrow Account to monitor the facility at least for a period of 30 years from the closure.
- 33.The facility shall prepare emergency preparedness plan covering identifying potential risk, establishing emergency response team, develop communication protocols, create emergency procedures, provide training & drills, coordinating external agencies, develop continuity plans , details of drainage pattern in 5km radius of the project etc, before operation of the facility.
- 34.The project proponent shall comply with the assurances / action plan given on the objections raised in the public hearing.
- 35.The project proponent shall ensure issue of notification by the Government declaring 500 m around landfill boundary as non-development buffer zone as stipulated in the CPCB criteria for Hazardous waste land fill.
- 36.The area of the greenbelt shall not be less than 33% of the total area of the site. Greenbelt with tall growing trees shall be developed along the boundary of the site. The green belt shall be developed in an area of 6.68 Ha i.e., total 6680 trees (@ 1000 tree/ Ha shall be planted. Rs.17.88 Lakhs shall be allotted for greenbelt development as committed by the proponent.
- 37.The Process and vehicle wash effluent shall be sent to CWMP CETP, the leachate shall be treated and reused and any excess shall be disposed through MEE & ATFD to ensure ZLD. No wastewater discharge involved in the proposal.
- 38.Technical training shall be provided to the workers before their actual involvement at work place.
- 39.The Leachate generated in the facility shall be collected and stored in Leachate Collection Pond and reused for landfill stabilization. Excess leachate shall be treated using MEE and ATFD to achieve ZLD. No Ground Water shall be extracted for the project activities.
- 40.For each phase of development cell, garland drain shall be constructed so as to ensure that any runoff of the catchment area land fill is diverted effectively and there is no contamination of the runoff water.
- 41.The project proponent shall construct garland drain towards hilly/ terrain portion and also shall construct retaining wall boundary of the Phase-I i.e., towards Northwestern side to avoid overflow of garland drain in rainy season/ during cyclones.
- 42.The proponent shall comply with the concerns raised by the public and commitments made by the proponent during the public hearing.



**Part B: Specific Conditions:**

1. The Boiler of 3 TPH capacity shall be installed for MEE operation and shall provide stack of 30 m height. Fuel for boiler is HSD - 35 Lit/hr. Power requirement for the project is 125 KVA sourced from Andhra Pradesh Eastern Power Distribution Company Limited (APEPDCL). DG set of 125 KVA capacity is for emergency power backup.
2. If the emissions containing the HBr, HCl, NH<sub>3</sub>, HF, H<sub>2</sub>S and Mercaptans shall be routed through two stages scrubber system. The packing media in the scrubber is 25 mm poly propylene rings. Scrubbed liquid shall be treated and reused or subjected to MEE.
3. Strict measures shall be taken to control odour with appropriate odour abatement methods. Fugitive emissions from storage tanks shall be avoided.
4. Analysis of Dioxins and Furans shall be done through CSIR National Laboratory or equivalent NABL accredited Laboratory.
5. The proponent shall establish adequate number of air monitoring stations, including one online station, in consultation with the APPCB and take appropriate measures to ensure that the Ground Level Concentration (GLC) shall comply with the NAAQ norms notified by MoEF&CC, GoI on 16.11.2009.
6. Measures shall be taken to comply with the provisions made under "Noise pollution (Regulation and control) amendment rules 2010 dated 11-01-2010 issued by MoEF&CC.
7. The Total water requirement for the project is 15 KLD and shall be sourced from APIIC water supply. The details of Water requirement & wastewater generation are as follows:

S.No	Process description	Water requirement & wastewater generation		Treatment and Disposal
		Consumption	Effluent	
1	Stabilization	1.5	0	Shall be sent to nearest CETP through tankers for final treatment and disposal.
2	Process & washing	3.0	1.0	
3	Truck & tyre washing	5.0	3.0	
4	Domestic consumption	2.5	2.0	Shall be sent to septic tank followed by soak pits.
5	Greenbelt	3.0	0	
	<b>Total</b>	<b>15.0</b>	<b>6.0</b>	

8. The proponent shall provide separate storm water drains and harvest the rainwater from the rooftops to recharge the ground water.
9. Regular monitoring of ground water level and quality should be carried-out by establishing a network of existing wells in and around project area in consultation with the competent Ground Water Department. Data thus collected should be sent at regular intervals to MoEF&CC, CGWA and CGWB, Southern Region, Hyderabad.
10. Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with GWB. Suitable measures should be taken for rainwater harvesting.
11. In case of Ground water usage, Permission from the competent Govt. authority should be obtained for drawl of ground water, if any, required for this project.
12. Hazardous waste generated from the industry such as organic residue, salts, spent solvents waste oils, used oils etc., shall be disposed as per the Hazardous and other Wastes (Management and Transboundary movement) Rules, 2016 and its amendments thereof.
13. The waste manifest system shall be developed in accordance with the CPCB/APPCB. The manifest system shall include details of the waste generator, waste transporter, quantity of waste, characteristics of waste, description, consistency of waste in terms of physical state and waste category number as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and subsequent amendments.
14. The proponent shall take appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.
15. The drums containing wastes stored in the storage area should be labeled properly indicating type of waste, quantity, characteristics, source and date of storing, etc.,
16. The Hazardous & Non-Hazardous / Solid waste generation and disposal:

S. No.	Description	Quantity	Mode of Disposal
1.	Waste oil from DG sets	5 TPA	To authorized recyclers/ re-processors.
2.	Evaporation Salt	10.0 TPD	Shall be sent to CHWTSDF
3.	Domestic Solid Waste	12.5 Kg/day	To municipal disposal site.

17. The proponent should strictly comply with the E-Waste Management Rules, 2016, and report compliance.
18. The Project Proponent shall ensure that the transportation activity of the unit should not cause any inconvenience to the public and comply with the local norms, if any;

**Part C: General Conditions:**

1. **This order is valid for 7 years.**
2. No further expansion, increase in production; or change in activity or

technologies/land use shall be made without prior approval of the SEIAA.

3. The project proponent shall submit the copies of the Environmental Clearance 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.
4. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P.
5. The Prior Environmental Clearance issued to this project along with the Approved Environmental Management Plan (EMP) and the Approved DPR should be uploaded in the project's web site and be made available in the public domain.
6. The PEC main contents be displayed on permanent boards at the main entry of the premises and at other prominent places.
7. The project proponent shall strictly adhere to its Environmental Policy approved by the SEIAA, and shall be made available in their web site.
8. A separate "Environmental Management Unit" (With a laboratory) shall be set up with all monitoring facilities.
9. A Separate Bank account need to be started for the budget allocated for the EMP and the amount committed should be deposited before the project obtains CTE/CTO as the case may be. The amounts allocated should not be diverted for any other purpose.
10. The funds earmarked for environmental protection measures (Capital cost Rs.12.02 Crs & Recurring cost of Rs.1.11 Crs) should be kept in separate account and should not be diverted for other purpose.
11. The proponent before starting the operations, shall obtain all other mandatory clearances from respective departments, including the CTE and CTO from the APPCB.
12. The project proponent shall meticulously follow the Form-1/2 of the application; and approved EMP & EIA, for the purpose of all compliances.
13. Four ambient air quality-monitoring stations should be established in the core

zone as well as in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.

- 14.Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Vijayawada and the State Pollution Control Board/ Central Pollution Control Board once in six months.
- 15.Personnel working in the industry should be provided with protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- 16.Occupational health check up program for the workers should be undertaken periodically. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- 17.The project proponent shall submit Half-yearly reports on the status of compliance of the stipulated Environmental Clearance Conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment & Forests, its Regional Office, Vijayawada, SEIAA, A.P., Regional Directorate, Central Pollution Control Board, Bengaluru, and A.P. Pollution Control Board.
- 18.The proponent shall upload the status of compliance of the environmental clearance conditions including results of monitored data on their websites and shall update the same periodically.
- 19.Officials from the Regional Office of MoEF&CC, Vijayawada / The SEIAA, Andhra Pradesh through the Regional Offices of Andhra Pradesh Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional Office to MoEF&CC, Vijayawada.
- 20.SEIAA also reserves the right to cancel the EC issued at any time, if EC has been obtained by the proponent through suppression of any information or furnishing false information upon which the project is appraised.
- 21.Concealing the factual data in the compliance reports, or failure to comply with any conditions mentioned above may result in withdrawal of the EC and attract action under the provisions of Environment (Protection) Act, 1986.
- 22.The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to add/alter/modify the above conditions or stipulate any further condition in the



interest of environment protection.

23. 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.
24. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
25. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned state PCB as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional office of MoEF&CC by e-mail.

Special Secretary To Govt

**MEMBER SECRETARY,  
SEIAA, A.P.**

**MEMBER,  
SEIAA, A.P.**

**CHAIRMAN,  
SEIAA, A.P.**

To

M/s. Re Sustainability Limited,  
Mr. Sivaramakrishnan Ganesh,  
Deputy General Manager,  
11<sup>th</sup> Floor, Level 11 B,  
Aurobindo Galaxy, Hyderabad Knowledge City,  
HITECH City Road, Hyderabad, Telangana.

**Copy to:**

1. The Chairman, SEAC, A.P. for kind information.
2. The Member Secretary, APPCB for kind information.
3. The EE, RO: Visakhapatnam, APPCB for information.
4. The Regional Officer, MoEF&CC, GoI, Vijayawada for kind information.
5. The Secretary, MoEF&CC, GoI New Delhi for kind information.
6. Monitoring cell, MoEF&CC, GoI, New Delhi for kind information.
7. The District Collector, Anakapalli District, Andhra Pradesh for kind information.

### Additional EC Conditions Landfill:

S.No.	EC Conditions
1.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 02 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 02 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
3.	Gas generated in the Land fill should be properly collected, monitored and flared
4.	The periodical monitoring of Dioxins and Furans in the Stack emissions shall be carried out. Analysis of Dioxins and Furans shall be done through CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram or equivalent NABL Accredited laboratory
5.	Appropriate Air Pollution Control (As proposed, air pollution control device viz. gas quencher; treatment with mixture of hydrated lime and activated powder for adsorption of partial acidity and VOCs (if any); bag filter/ESP for removal of particulate matter; venturi scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gas; and demister column for arresting water carry over will be provided to the incinerator) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
6.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
7.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
8.	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants

	released (e.g., PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.
9.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
<b>II. Water Quality Monitoring And Preservation :</b>	
10.	Rain water runoff from hazardous waste storage area shall be collected and treated in the effluent treatment plant.
11.	Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
12.	All leachates arising from premises should be collected and treated in the ETP followed by RO. RO rejects shall be evaporated in MEE. Toxicity Characteristic Leaching Procedure (TCLP) test to be performed on leachates.
13.	The depth of the land fill site shall be decided based on the ground water table at the site.
14.	No discharge in nearby river(s)/pond(s).
15.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
16.	Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board / CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.
17.	The project proponent shall install continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
<b>III. Waste Management</b>	
18.	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
19.	The solid wastes shall be segregated, managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
20.	No non-hazardous wastes, as defined under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, shall be handled in

	the premises.
21.	Periodical soil monitoring to check the contamination in and around the site shall be carried out.
22	The TSDF should only handle the waste generated from the member units.
<b>IV. Statutory Compliance</b>	
22.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities
23.	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
24.	The project proponents shall adhere to all conditions as prescribed in the Protocol for 'Performance Evaluation and Monitoring of the Common Hazardous waste treatment, storage and disposal facilities' published by the CPCB in May, 2010.
25.	The Project proponent should ensure that the TSDF fulfils all the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016.
<b>V. Specific Conditions</b>	
26.	As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within time as proposed.
<b>VI. Public Hearing And Human Health Issues</b>	
27.	Occupational health surveillance of the workers shall be done on a regular basis.
28.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
29.	Traffic congestion near the entry and exit points from the roads adjoining the project site shall be avoided. Parking should be fully internalized and no public space should be utilized.
<b>VII. Noise Monitoring And Prevention</b>	
30.	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
31.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
<b>VIII. Miscellaneous</b>	
32.	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.
33.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts/NGT and any other Court of Law relating to the subject matter.
34.	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.
35.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
36.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
37.	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.
38.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
39.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
40.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
41.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
42.	The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
43.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
44.	Self-environmental audit shall be conducted annually. Every three years third

	party environmental audit shall be carried out.
45.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
46.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
47.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for 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. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms /conditions and/or shareholder's/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
48.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
49.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
50.	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.
51.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
<b>IX. Green Belt</b>	
52.	Top soil shall be separately stored and used in the development of green belt.
53.	Green belt shall be developed in an area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter alia cover the entire periphery of the project site.
<b>X. Energy Conservation Measures</b>	

54.	Energy conservation measures like installation of LED/CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.
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