

Category of the Industry :

RED



CONSENT ORDER NO. 2405150155896 DATED: 18/09/2024.

PROCEEDINGS NO.T2/TNPCB/F.0881VDR/RL/VDR/W/2024 DATED: 18/09/2024

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE – DIRECT -M/s. RE SUSTAINABILITY IWM SOLUTIONS LIMITED , S.F.No. Survey No: 138 (2A,2B, 3,4,5); No.139 (2A,2B,3,4,5,6,7) No. 144 (1A, 1B,2, 2B,3A,3B,4,5) No.145 (1,2,3,4,5) No. 146 (1,2,3,4A,4B,4C,4D,5,9,10) N0. 147 (1,2A,2B,3,4A,4B,5,6A,66B,6C,9,11A,11B, No: 148(2A,2B,2C,3A,3B,4) and No.152 (1,2,5,6), UNDURUMIKIDAKULAM village Thiruchuzhi Taluk and Virudhunagar District - Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg. (Industry User ID- R16VDR6016256)

- Ref:** 1. PROCEEDINGS NO.T2/TNPCB/F.0881VDR/RL//VDR/W&A/2022 DATED: 22/04/2022
2. Application No. 50155896, dated 04-02-2023/ 22-07-2024
3. IR.No : F.0881VDR/RL/DEE/VDR/2024 dated 01/08/2024
4. Report of DEE on 29-08-2024
5. CCC (Consent Clearance Committee) resolution vide item No.328-03, dated 12.09.2024.

CONSENT TO OPERATE is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as “The Act”) and the rules and orders made there under to

Whole time Director
M/s . RE SUSTAINABILITY IWM SOLUTIONS LIMITED
S.F No. Survey No: 138 (2A,2B, 3,4,5); No.139 (2A,2B,3,4,5,6,7) No. 144 (1A, 1B,2, 2B,3A,3B,4,5) No.145 (1,2,3,4,5) No. 146 (1,2,3,4A,4B,4C,4D,5,9,10) N0. 147 (1,2A,2B,3,4A,4B,5,6A,66B,6C,9,11A,11B, No: 148(2A,2B,2C,3A,3B,4) and No.152 (1,2,5,6)
UNDURUMIKIDAKULAM Village
Thiruchuzhi Taluk
Virudhunagar District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2026**

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
Whole time Director ,
M/s.RE SUSTAINABILITY IWM SOLUTIONS LIMITED,

LEVEL 11B, AUROBINDO GALAXY, HYDERABAD KNOWLEDGE CITY, HITECH CITY ROAD,
HYDERABAD-500081
TELANGANA
INDIA

Pin: 500081

Copy to:

- 1.The Commissioner, NARIKUDI-Panchayat Union, Thiruchuzhi Taluk, Virudhunagar District .
 - 2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, VIRUDHUNAGAR.
 - 3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Madurai.
 - 4. File
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SPECIAL CONDITIONS

1. This consent to operate is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Directly Landfillable waste	150000	TPA
2.	Landfillable waste after stabilization	90000	TPA
3.	Alternative fuel and Raw material	10000	TPA

2. This consent to operate is valid for operating the facility with the below mentioned permitted outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	3.0	On Industrys own land
Effluent Type : Trade Effluent			
1.	Trade Effluent I (RO Permeate)	2.16	Recycling into Process – Cooling tower make up, seal water and chemical dosing in ETP
2.	Trade Effluent II(RO Reject+Polishing RO Reject)	0.84	Recycling into Process – Stabilization Process
3.	Trade Effluent III (ATFD Salt)	1.0	Stored separately and disposed into TSDF.

3. The effluent discharge shall not contain constituents in excess of the tolerance Limits as laid down hereunder.

Sl. No.	Parameters	Unit	TOLERANCE LIMITS - OUTLETS -Nos				
			Sewage		Trade Effluent		
			1		I, II & III		
1.	pH		5.5 to 9		5.5 to 9		
2.	Temperature	oC	-		shall not exceed 5°C above the receiving water temperature		
3.	Particle size of Suspended solids	-	-		shall pass 850 micron IS sieve		
4.	Total Suspended Solids	mg/l	30		100		
5.	Total Dissolved solids (inorganic)	mg/l	-		2100		
6.	Oil & Grease	mg/l	-		10		
7.	Biochemical Oxygen Demand (3 days at 27oC)	mg/l	20		30		
8.	Chemical Oxygen Demand	mg/l	-		250		
9.	Chloride (as Cl)	mg/l	-		1000		
10.	Sulphates (as SO4)	mg/l	-		1000		
11.	Total Residual Chlorine	mg/l	-		1		
12.	Ammonical Nitrogen (as N)	mg/l	-		50		
13.	Total Kjeldahl Nitrogen (as N)	mg/l	-		100		
14.	Free Ammonia (as NH3)	mg/l	-		5		
15.	Arsenic (as As)	mg/l	-		0.2		
16.	Mercury (as Hg)	mg/l	-		0.01		
17.	Lead (as Pb)	mg/l	-		0.1		
18.	Cadmium(as Cd)	mg/l	-		2		
19.	Hexavalent Chromium (as Cr+6)	mg/l	-		0.1`		
20.	Total Chromium (as Cr)	mg/l	-		2		
21.	Copper (as Cu)	mg/l	-		3		
22.	Zinc (as Zn)	mg/l	-		1		
23.	Selenium (as Se)	mg/l	-		0.05		
24.	Nickel (as Ni)	mg/l	-		3		
25.	Boron (as B)	mg/l	-		2		
26.	Percent Sodium	%	-		-		
27.	Residual Sodium Carbonate	mg/l	-		-		
28.	Cyanide (as CN)	mg/l	-		0.2		
29.	Fluoride (as F)	mg/l	-		2		
30.	Dissolved Phosphates(as P)	mg/l	-		5		
31.	Sulphide (as S)	mg/l	-		2		
32.	Pesticides	mg/l	-				
33.	Phenolic Compounds (as C6H5OH)	mg/l	-		1		
34.	Radioactive materials a) Alpha emitters	micro curie/ml	-		10-7		
35.	Radioactive materials b). Beta emitters	micro curie/ml	-		10-6		

36.	Fecal Coliform	MPN/100ml	-		-		
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4. All units of the sewage and Trade effluent treatment plants shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl No.3 above or to achieve the zero liquid discharge of effluent as applicable.
5. The occupier shall maintain the Electro Magnetic Flow Meters/water Meters installed at the inlet of the water supply connection for each of the purposes mentioned below for assessing the quantity of water used and ensuring that such meters are easily accessible for inspection and maintenance and for other purposes of the Act.
 - a. Industrial Cooling, Spraying in mine pits or boiler feed.
 - b. Domestic purpose.
 - c. Process.
6. The occupier shall maintain the Electro Magnetic Flow Meters with computer recording arrangement for measuring the quantity of effluent generated and treated for the monitoring purposes of the Act.
7. Log book for each of the unit operations of ETP have to be maintained to reflect the working condition of ETP along with the readings of the Electro Magnetic Flow Meters installed to assess effluent quantity and the same shall be furnished for verification of the Board officials during inspection.
8. The occupier shall at his own cost get the samples of effluent/surface water/ground water collected in and around the unit by Board officials and analyzed by the TNPC Board Laboratory periodically.
9. Any upset condition in any of the plants of the factory which is, likely to result in increased effluent discharge and result in violation of the standards mentioned in Sl. No.3 above shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
10. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.
11. The occupier shall develop adequate width of green belt at the rate of 400 numbers of trees per Hectare.
12. The occupier shall provide and maintain rain water harvesting facilities.
13. The occupier shall ensure that there shall not be any discharge of effluent either treated or untreated into storm water drain at any point of time.
14. In the case of zero liquid discharge of effluent units, the occupier shall adhere the following conditions as laid under.
 - i). The occupier shall ensure zero liquid discharge of effluent, thereby no discharge of untreated / treated effluent on land or into any water bodies either inside or outside the premises at any point of time.
 - ii) The occupier shall operate and maintain the Zero liquid discharge treatment components comprising of Primary, Secondary and tertiary treatment systems at all times and ensure that the RO permeate/Evaporator condensate shall be recycled in the process and the final RO reject shall be disposed off with the reject management system ensuring zero liquid discharge of effluents in the premises.
 - iii) The occupier shall operate and maintain the reject management system effectively and recover the salt from the system which shall be reused in the process if reusable or shall be disposed off as ETP sludge.
 - iv) In case of failure to achieve zero discharge of effluents for any reason, the occupier shall stop its production and operations forthwith and shall be reported to the Member Secretary/Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
 - v) The occupier shall restart the production only after ascertaining that the Zero discharge treatment system can perform effectively for achieving zero discharge of effluents.

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize “Mission LiFE” logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt “Mission LiFE” action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The TSDF shall comply with the conditions stipulated in the Environmental Clearance obtained vide MoEF& CC, GoI letter No. F.No. 21- 120/2021-IA.III dated 30/10/2022.
2. The TSDF shall not carry out establishment of any facility without having valid Environmental Clearance obtained from the competent authority.
3. The TSDF shall obtain Hazardous Waste Authorization for handling hazardous waste under Hazardous and Other wastes (M&TM) Rules, 2016.
4. The TSDF shall comply with the guidelines issued for minimal Requisite infrastructure facilities and operational control for Pre-processing of hazardous and other waste as per the HOWM. Rules 2016 issued by CPCB, Delhi.
5. The facility shall dispose the leachate generated in its process only through the ATFD.
6. The facility shall operate and maintain the Effluent Treatment Plant and Zero Liquid System Provided efficiently and continuously so as to achieve the Standards prescribed.
7. The facility shall ensure that that no untreated leachate/treated trade effluent shall be stagnated/discharged inside/outside the premises under any circumstances.
8. The facility shall maintain the impervious solar evaporation pond provided inside the premises and shall utilise only as a temporary storage during the unavoidable circumstances.
9. The facility shall maintain the storm water drain available in the periphery of the Secured Landfill facility as per the guidelines of CPCB and shall maintain imperious and ensure that it is not filled with debris/soil affecting the free flow of storm water at all point of time.
10. The TSDF shall ensure that the collection, storage, transport, reception, treatment and disposal of hazardous wastes for land filling shall be in accordance with the Hazardous and Other wastes (M&TM) Rules 2016.
11. The TSDF shall collect, receive, transport, store and treat the hazardous and other wastes as permitted as per the guidelines or standard operating procedures issued by the Central Pollution Control Board from time to time and convert into Alternate Fuel Resource for further use in co processing in cement kiln.
12. The TSDF shall pre-process the hazardous waste so as to meet the acceptance criteria specified in Table-2.0 of the CPCB guidelines entitled.
13. The TSDF shall not store hazardous solid wastes for a period of more than 90 days and shall not store hazardous wastes more than the consented/authorized quantity as per the CTO/Authorization issued by the Board.
14. HWs of different schedule items as per HWM Rules, 2016 received from various industries shall be categorized and stored separately with name board within the process shed.
15. Compartmentalization inside the process shed shall be provided for separate & safe storage of different HWs to avoid carryover of risk in storage area to other materials.
16. The TSDF shall provide Electromagnetic flow meter at the outlet of ETP and shall maintain logbook for the same.
17. The TSDF shall provide additional sorting equipments like Electro- Magnetic separator to remove the metal items before shredding the wastes in the shredder machine within three months time.
18. The TSDF shall made additional provision of emergency showers and eye wash stations in the premises.
19. The TSDF shall ensure that all the sheds are provided with leak resistant flooring with collection mechanism and wash water to be treated in the Effluent treatment plant.
20. The TSDF shall shred the HDFE bags, if any received, in the drum shredder and use of the same in solid blending section.
21. The facility shall analyse the ground water sample collected from piezometric wells regularly through TNPCB laboratory and submit the report.
22. The TSDF shall ensure that the Non compatible waste shall not be allowed to get mixed.
23. The TSDF shall ensure that no ignitable materials shall be allowed beyond security points.
24. Fire fighting automatic Jacky pump and other pumps shall be under flooded suction and they shall be started daily to maintain battery in good condition.
25. The TSDF shall segregate the hazardous waste received from the industries properly and store in a storage shed without storing the same in open land.
26. Personal protective equipment like whole body apron, self—contained breathing apparatus and gas masks, gum boots etc shall be provided to access the fire prone area to contain fire.
27. The process shed of liquid Hazardous Wastes, if any received, shall be covered all sides for safety reasons and leakages/ spillages from storage of barrels shall be avoided
28. Safety and Environmental Audit shall be undertaken by engaging reputed approved Agency externally & submit report and implement the recommendations at the report.
29. Risks Analysis shall be conducted regularly by engaging reputed Agency & submit report.
30. The transport of the hazardous and other wastes shall be in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard.
31. The TSDF shall follow Manifest system while transportation of hazardous and other wastes as per the HOWM, Rule (19).

32. The TSDF shall pre-process the hazardous wastes for co—processing in an environmentally safe manner avoiding the possibilities of contaminating the nearby environment and eliminate the chances of accidents leading to environmental catastrophe.
33. The TSDF shall maintain the records of operations in Form 3 and shall submit the returns regarding handling of hazardous wastes in Form 4 by 30th June of every year for the preceding period April to March.
34. The landfill site shall be covered with plastic sheets during monsoon season, to avoid contact of rain water with waste dumped as reported by TSDF during public hearing.
35. The TSDF shall improve and maintain the laboratory provided for analysis so as to ensure the compatibility of the wastes for safe treatment and disposal.
36. Cameras provided in the TSDF facility shall be always connected to the Care Air Centre at Chennai to observe the proper operation of the facility.

**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**

GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in Production quantity and change in sewage/Trade effluent.
2. This Consent is issued by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished in the application will also be ground for review/variation/revocation of the Consent Order under Section 27 of the Act and to make such variation as deemed fit for the purpose of the Act.
3. The consent conditions imposed in this order shall continue in force until revoked under Section 27(2) of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Water (Prevention and Control of Pollution) Act, 1974 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Effluent Treatment Plant sufficient to ensure continuous operation of all pollution control equipments to maintain compliance.
7. The occupier shall provide all facilities to the Board officials for inspection and collection of samples in and around the factory at any time.
8. The occupier shall display the flow diagram of the sources of effluent generation and pollution control systems provided at the ETP site.
9. The solid waste such as sweepings, wastage, package, empty containers, residues, sludge including that from air pollution control equipments collected within the premises of the industrial plant shall be collected in an earmarked area and shall be disposed off properly.
10. The occupier shall collect, treat the solid wastes like food waste, green waste generated from the canteen and convert into organic compost.
11. The occupier shall segregate the Hazardous waste from other solid wastes and comply in accordance with Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
12. The occupier shall maintain good house-keeping within the factory premises.
13. All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the trade effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
14. The occupier shall ensure that there shall not be any diversion or by-pass of trade effluent on land or into any water sources.
15. The occupier shall ensure that solar Evaporation pans shall be constructed in such a way that the bottom of the solar pan is at least 1 m above the Ground level (if applicable).
16. The occupier shall furnish the following returns in the prescribed formats to the concerned District office regularly.
 - a) Monthly water consumption returns of each of the purposes with water meter readings in Form-I on or before 5th of every month.
 - b) Yearly return on Hazardous wastes generated and accumulated for the period from 1st April to 31st March in Form-4 before the end of the subsequent 30th June of every year (if applicable).
 - c) Yearly Environmental Statement for the period from 1st April to 31st March in Form -V before the end of the subsequent 30th September of every year(if applicable).
17. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
18. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
19. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.

20. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.
21. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.
22. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Water (Prevention and Control of Pollution) Act, 1974, as amended in Form-II alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.
23. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.
24. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**