

Date: 1st June 2023

To,

The Director
Regional Office (West Central Zone),
Ministry of Environment, Forest and Climate Change,
Ground Floor, East wing,
New Secretariat Building,
Civil lane, Nagpur-440001

Subject: Six Monthly Environment Monitoring data & Stipulate Environmental Clearance
condition compliance report of our existing unit at Gat No. 265/1-266, Village: Avankhed,
Tal-Dindori, Dist.-Nashik

Ref: **EC (POLYGENTA)-2009/CR.135/ TC.1 dated 15.02.2010**

Respected Sir/Madam,

We are submitting half-yearly Compliance Report (hard & soft copy) for the period October 2022 to March 2023, as specified in Clause 10(i) of MoEF Notification dt. 14th September 2006 & as per Condition No. 3(xxvii) of EC No. EC(POLYGENTA)/2009/CR.135/TC.1 dt. 15.2.2010.

This is for your kind perusal please

Thanking you.

Yours truly,

For Revalyu Recycling (India) Limited.
(Formerly known as Polygenta Technologies Limited)


Dhanvant H. Yeola
Executive Director-Technical



Encl.: Six monthly Environmental clearance report (October 2022 to March 2023) along with
the photocopies of Environmental Monitoring data & necessary documents.

CC: 1. The Member Secretary, MPCB, Sion, Mumbai
2. The Regional Officer, MPCB, Nashik.
3. Member Secretary, State Environment Impact Assessment Authority, Environment Dept.,
Govt. of Maharashtra, Mumbai.

REVALYU RECYCLING (INDIA) LIMITED

IMS (ISO 9001, ISO 14001 and ISO 45001), Oekotex Std-100, GRS (Global Recycle Standard), OBP (Ocean Bound Plastic) and REACH.

Registered Office and Plant : Gat No. 265/1-266, Village Avankhed, Taluka Dindori, Dist. Nashik - 422 202 | Ph.: +91 (O) 2557 228100 to 228209

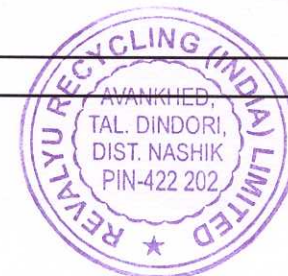
Nashik Office : Bizsol 1/A/1B, First Floor, Plot No. 22, Indira Nagar, Wadala Road, Nashik - 422 006. | Ph.: +91 253 2992121

E-mail : info@revalyu.in | <https://www.revalyu.in>

Corporate Identify Number : U17120MH1981PLC025388

**Half yearly Compliance Report in respect of the stipulated prior Environment Clearance terms & Conditions of
Polygenta Technologies Limited
Gat No. 265/1-266, Village-Avankhed, Tal-Dindori, Dist.-Nashik**

EC letter no.	EC(Polygenta)-2009 /CR.135/TC.1 dt. 15.02.2010	Date : 01/06/2023
EC Condition No.	List of Legal Compliance	Status
Sr. No. 3 (i)	'Consent to Establish " shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environmental department before start of any construction work at the site.	Complied. Consent to Establish was obtained from from Maharashtra Pollution Control Board under Air and Water Act and a copy was submitted to the Environmental department before start of construction work at the site. Consent to Operate is obtained and valid till 31.7.2024.
Sr. No. 3 (ii)	No land Development/construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.	Complied.
Sr. No. 3 (iii)	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.	Noted & Agreed. No additional land was used or acquired for any activity.
Sr. No. 3 (iv)	Provision shall be made for housing of construction labor with the site all necessary infrastructure and facilities such as fuel for cooking , mobile toilets,mobile STP , Safe drinking water , Medical health care , creche etc. the housing may be in form of temporary structure to be removed after completion of the project.	Complied during construction stage, now not applicable as unit was commissioned and in operation as on today.
Sr. No. 3 (v)	For controlling fugitive natural dust , Regular sprinkling of water & wind shield at appropriate distance in vulnerable areas of the plant shall be ensured.	Noted & Complied
Sr. No. 3 (vi)	Regular monitoring of air quality including SPM & SO2 level both in work zone and ambient air shall be carried out in and around the project and record shall be maintained .The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & Submitted accordingly to MPCB.	Monitoring of AAQM done regularly on monthly basis. Copy of the report is enclosed herewith.



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Sr. No. 3 (vii)	The process emission and particulate matter from various units shall conform to the standards prescribed by the concerned authorities from time to time . At no time the emission level shall go beyond the stipulate standards. In the event of failure of pollution control system (s) adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted unit the desired efficiency has been achieved.	Noted & complied
Sr. No. 3 (viii)	Fugitive emission in the work zone environmet product and raw materials storage area shall be reguraly monitored. The emission shall confirm to the limits imposed by MPCB	Complied. Monitoring of work Zone area regularly basis and are within limit. Copy of the report is enclosed herewith.
Sr. No. 3 (ix)	During tranfer of material spillage shall be avoided and garland drains be constructed to avoid mixing of accidental spillage with domestic waste & Storm drains.	Complied: Necessary precautions are being followed during material transfer to avoid accidental spillages.
Sr. No. 3 (x)	For control of process emissions ,stack af appropriate height as per the CPCB guidelines shall be provided ,The scrubber water shall be sent to ETP for further treatment .	Stacks has been provided to Thermic Fluid Heater(TFH), DG Sets, & Boiler with adequate height. All the stacks is being regularly monitored and operating satisfactory. Industry has provided 41.50 Mtr., 13 Mtr. (Each) & 32 Mtr. respectively . Latest analysis report is enclosed herewith.
Sr. No. 3 (xi)	A detail Scheme for rain water harvesting shall be prepared and implimented to recharge ground water.	The project is planning to install rain water harvesting structure such as recharge pit/collection tank to conserve rainwater & it will be used in processes during rainy season. Copy of report for Designing of Rain Water Harvesting is attached herewith.
Sr. No. 3 (xii)	Periodic monitoring of ground water shall be undertaken and result analyzed to ascertain any chages in the quality of water , Results shall be regularly submitted to Maharastra pollution control Board.	Monitoring of ground water on regularly basis. Copy of the report is enclosed herewith.
Sr. No. 3 (xiii)	The project proponet shall treat the wastewater up the industry specific standards as notified in EPA or as laid down by the MPCB whichwever area stringht	Noted & complied.



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Sr. No. 3 (xiv)	Leq of Noise level shall be maintained as per standards for people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided	Complied. Noise levels are monitored and it is ensured that it is as per standard for people working in high noise area. Necessary PPEs are provided & used by employee/Workers. Ambient and work zone noise levels were monitored. Monitoring report is attached.
Sr. No. 3 (xv)	The overall noise level in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosure etc. On all sources of noise generation, the ambient noise level shall conform to the Standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.	Complied. Necessary noise control measures like acoustic enclosure are provided to DG set to control noise level. All the employees working in site are provided with earmuffs/ear plugs and their use is ensured. Noise level measurement is carried out regularly as per requirement & the results are found within prescribed limits. Noise level monitoring reports are attached.
Sr. No. 3 (xvi)	Green belt shall be developed & maintained around the plant periphery. Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept.	A green belt has been developed at the project site i.e. the plant premises with 409 nos. of trees as per CPCB guidelines.
Sr. No. 3 (xvii)	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident, leak detection devices shall also be installed at strategic places for early detection and warning.	Adequate safety measures like alarms, trips, interlocks, fire alarm system, work permit system have been provided and followed to limit the risk zone within plant boundary. Leak detectors are provided in Ammonia storage area for leak detection and alarm in Control room. Dyke wall is provided for storage tanks.
Sr. No. 3 (xviii)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per Factories Act.	Complied. Periodical medical examination of all employees is carried out as per the Factories Act, 1948 and records are maintained. Last medical examination was done on 27.02.2023.
Sr. No. 3 (xix)	The solid waste shall be properly collected, segregated and disposed as per the provision of Solid Waste (Management and Handling) Rules, 2000	The solid waste is properly collected, segregated and handed over to the local body.
Sr. No. 3 (xx)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Complied. Fire extinguishers, Fire balls, Smoke Detectors, Water sprinklers are provided. Emergency drills are conducted periodically.



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Sr. No. 3 (xxi)	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous waste (Management and Handling) Rules 2003 (amended). Authorization from the MPCB shall be obtained or collectionsireatment storage disposal of hazardous wastes	Complied. Total hazardous waste generated at our plant is regularly disposed of at CHWTSDf at Ranjangaon & MPCB authorized recycler . The annual returns i.e. Form 4 for hazardous waste disposal are also submitted regularly. Form 4 & Hazardous Membership Agreement copy are enclosed herewith.
Sr. No. 3 (xxii)	The company shall undertake following Waste Minimization Measures 1.Metering of quantities of active ingrediernts to minimize waste 2.Reuse of by- products from the process as raw materials or as raw materialaial substitutes in other process, 3.Maximizing Recoveries. 4.Use of automated material transfer system to minimize spillage 5. Use of "Closed Feed" system into batch reactors.	Complied. To minimise waste 1. We are metering quantities like TiO ₂ & Red Toner and Blue Toner. 2. We are using post consumed PET bottles in form of flakes to produce Yarn/ Chips. 3. We are recovering Ethylene Glycol and reuse in the process. 4. Mass Flow Meter is provided for flakes charging feed line.
Sr. No. 3 (xxiii)	Regalar mock drills for the on-site emergency management plan shall be carried out. Implementation of changes/ improvements required, if any, in the on-site management plan shall be ensured.	Regular mock drills are carried out to check the preparedness of employees. Observations are complied and incorporated in On Site Emergency Plan at the time of review.
Sr. No. 3 (xxiv)	A separate environment management cell with qualified staff shall be set up for implementation of the stipalated environmental safeguards.	Complied. Separate Envioronment Cell is formed and it is ensured that all the environmental safe guards are implemented and fuctioning properly.
Sr. No. 3 (xxv)	Separate funds shall be allocated for implimentation of environmental protction measures/EMP along with item-wise breaks-up. These cost shall be included as part of thé projcck cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and yearwise expenditure should reponed to the MPCB & this department.	Separate EHS cell is set to look after various functions related to Environmental management. Separate funds have been allocated for implementation of environment protection measures and not diverted for any other purposes.
Sr. No. 3 (xxvi)	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://envis.maharashtra.gov.in	Noted and Complied.



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Sr. No. 3 (xxvii)	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 June & December of each calendar year.	Complied. Last half yearly compliance report was submitted to Environment Dept. and MPCB on 01.12.2022.
Sr. No. 3 (xxviii)	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied. Copy of the EC has been Submitted to local administration. The copy of the EC was uploaded on website. The link as follows (https://www.polygenta.com/Certificat e.html)
Sr. No. 3 (xxiv)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically, It shall simultaneously be sent to the Regional office of MoEF, the respective Zonal office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ NO _x (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.	Complied. Status of compliance of EC conditions and monitoring reoprts were uploaded on website and updated peridically. Criteria pollutants viz. SPM, RSPM, SO ₂ , NO _x are monitored and displayed at outside main gate of company.
Sr. No. 3 (xxx)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitoed data (both in hard copies as well as by e-mail) to the respeciive Regional Office of MoEF the respective Zonal Office of CPCB and the SPCB	Complied. Last half yearly compliance report for the period April 2022 to September 2022 was submitted, both in hard copies as well as through email.
Sr. No. 3 (xxxi)	The environmental statement for each financial year ennding 31st March in form-V as is mentioned to be submitted by the project proponent to the concerned state pollution control board as prescribed under the environment (protection) rules ,1986, as amended subsequently ,shall also be pu on the webside of comapny along with the status compliance of ECcondition and shall be set to the respective Regional Officer of MoEF by e-mail	Environmental Statement for the financial year 2021-2022 was submitted. Copy of the submission is enclosed herewith.



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Sr. No. 3 (xxii)	The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon' ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.	Noted & complied
7	The above stipulations would be enforced among others under the Water(P&CP) Act 1974, Air (P&CP) Act, 1981, EPA 1986 & Rules thereunder HW (H &M) Rules 1989 and its amendments, the Public Liability Insurance Act 1991 and its amendments.	Complied. PLI Policy No. 2600039024 valid till 31.3.2024.
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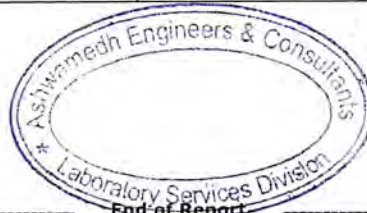
STACK EMISSION MONITORING REPORT

Sample ID : SA/03/23/0202	Report No. SA/03/23/0202	Report Date	11/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle CO ₂ : 1 x 1 no. bladder	Date - Sampling	06/03/2023
		Date - Receipt of Sample	07/03/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	07/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	10/03/2023

Stack Details	
~ Stack Identity	Steam Boiler
~ Stack attached to	Boiler
~ Material of construction	MS
~ Stack height above ground level	32 m
~ Stack diameter	0.55 m
~ Stack shape at top	Round
~ Type of Fuel	LSHS
~ Fuel Consumption	920 Kg/d

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	108	-	°C	IS 11255 (Part 3):2008
Flue Gas Velocity	8.75	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	5368	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	19	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	5.61	Not specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	0.723	450	kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	12	Not specified	mg/Nm ³	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	1	Not specified	%	IS 13270:1992


Kavita Shewale
Section In-charge (Chemical)
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End of Report



Sample ID : SA/03/23/0202	Report No. SA/03/23/0202	Report Date	11/03/2023
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B. Shewale

Kavita Shewale
Section In-Charge (Chemical)
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Note:

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4. There are no additions to, deviations or exclusions from the method.

Disclaimer

Information is supplied by the customer (~) and can affect the validity of results.






STACK EMISSION MONITORING REPORT

Sample ID : SA/03/23/0203	Report No. SA/03/23/0203	Report Date	11/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle CO ₂ : 1 x 1 no. bladder VOC (Hydrocarbons): 1 x 1 no. bladder	Date - Sampling	06/03/2023
		Date - Receipt of Sample	07/03/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	07/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	11/03/2023

Stack Details	
~ Stack Identity	HTM Boiler
~ Stack attached to	Boiler
~ Material of construction	MS
~ Stack height above ground level	41.5 m
~ Stack diameter	0.70 m
~ Stack shape at top	Round
~ Type of Fuel	LSHS
~ Fuel Consumption	6212 Kg/d

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Velocity	8.5	-	m/s	IS 11255 (Part 3):2008
Flue Gas Flow Rate	6714	-	Nm ³ /h	IS 11255 (Part 3):2008
Particulate Matter (PM)	17	150	mg/Nm ³	IS 11255 (Part 1):1985
Sulphur Dioxide (SO ₂)	7.02	Not specified	mg/Nm ³	IS 11255 (Part 2):1985
Sulphur Dioxide (SO ₂)	1.13	900	kg/d	IS 11255 (Part 2):1985
Oxides of Nitrogen (NO ₂)	12.7	Not specified	mg/Nm ³	IS 11255 (Part 7):2005
Carbon Dioxide (CO ₂)	2	Not specified	%	IS 13270:1992

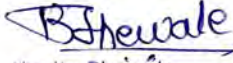
Note: Sample ID SA/03/23/0203 bears two Test Reports-SA/03/23/0203 and SA/03/23/0203N


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Section In-charge (Chemical)
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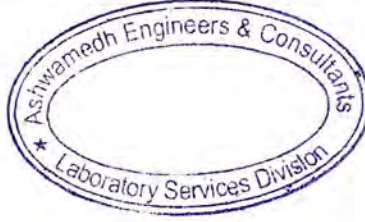


End of Report

Sample ID : SA/03/23/0203	Report No. SA/03/23/0203	Report Date	11/03/2023
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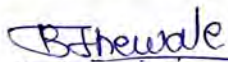
STACK EMISSION MONITORING REPORT

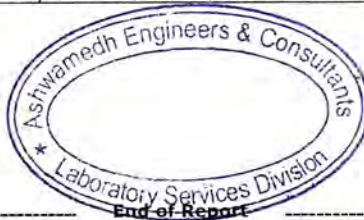
Sample ID : SA/03/23/0203	Report No. SA/03/23/0203N	Report Date	11/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Stack Emission
Sample Quantity / Packing	PM: 1 no. thimble SO ₂ : 30 ml x 1 no. plastic bottle NO ₂ : 25 ml x 1 no. plastic bottle CO ₂ : 1 x 1 no. bladder VOC (Hydrocarbons): 1 x 1 no. bladder	Date - Sampling	06/03/2023
		Date - Receipt of Sample	07/03/2023
Sampling Procedure	IS 11255 (Part 1):1985, (Part 2):1985, (Part 3):2008, (Part 7):2005	Date - Start of Analysis	07/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	11/03/2023

Stack Details	
~ Stack Identity	HTM Boiler
~ Stack attached to	Boiler
~ Material of construction	MS
~ Stack height above ground level	41.5 m
~ Stack diameter	0.70 m
~ Stack shape at top	Round
~ Type of Fuel	LSHS
~ Fuel Consumption	6212 Kg/d

Parameter	Result	Limits as per MPCB Consent	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Flue Gas Temperature	204	-	°C	IS 11255 (Part 3):2008
VOC (Hydrocarbons)	2.31	Not specified	mg/Nm ³	IS 5182 (Part 17):1979

Note: Sample ID SA/03/23/0203 bears two Test Reports-SA/03/23/0203 and SA/03/23/0203N


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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/03/23/0199	Report No. AA/03/23/0199	Report Date	14/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Near Main Gate	Date - Sampling	06/03/2023 to 07/03/2023
Sample Quantity / Packing	PM ₁₀ , Bap, Metals: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 1 x 6 no. charcoal tubes CO: 1 x 1 no. bladder	Date - Receipt of Sample	07/03/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	07/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	13/03/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity 1.14 km/h	Wind Direction S-N	Relative Humidity (Max./Min.): 58/41%	Temperature (Max./Min.): 28/18°C	Duration of Survey 24 h
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Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	6.41	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	7.29	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	63	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	15	60	µg/m ³	CPCB Guideline, Volume I, 36/2012-13, Page No.15:2013
Ozone (O ₃)	BLQ (LOQ:19.6)	180	µg/m ³	Methods of Air Sampling and Analysis (AWMA), 3rd Ed., Method 411, Page no. 403 :1988
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2
Carbon Monoxide (CO)	1.29	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I, 36/2012-13, Page No.35: 2013
Benzene (C ₆ H ₆)	1.74	5	µg/m ³	IS 5182 (Part II) : 2006
Benzo (a) pyrene (BaP) Particulate Phase only	BLQ (LOQ:0.2)	1	ng/m ³	IS 5182 (Part 12): 2004
Arsenic (as As)	BLQ (LOQ:0.3)	6	ng/m ³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.4
Nickel (as Ni)	BLQ (LOQ:3)	20	ng/m ³	EPA/625/R-96/010 a Compendium Method IO-3.1 & 3.2

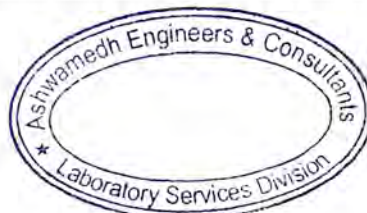
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

B. Shewale

Kavita Shewale
Section In-Charge (Chemical)
Reviewed & Authorised by



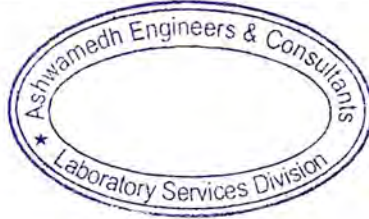


TC-5509

Sample ID : AA/03/23/0199	Report No. AA/03/23/0199	Report Date	14/03/2023
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Bhewale

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/03/23/0200	Report No. AA/03/23/0200	Report Date	14/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Near Chip Silo	Date - Sampling	06/03/2023 to 07/03/2023
Sample Quantity / Packing	PM ₁₀ , Bap, Metals: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 1 x 6 no. charcoal tubes CO: 1 x 1 no. bladder	Date - Receipt of Sample	07/03/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	07/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	13/03/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity 1.14 km/h	Wind Direction S-N	Relative Humidity (Max./Min.): 58/41%	Temperature (Max./Min.): 28/18°C	Duration of Survey 24 h
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Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	6.26	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	8.30	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	45	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	14	60	µg/m ³	CPCB Guideline, Volume I, 36/2012-13, Page No.15:2013
Ozone (O ₃)	BLQ (LOQ:19.6)	180	µg/m ³	Methods of Air Sampling and Analysis (AWMA), 3rd Ed., Method 411, Page no. 403 :1988
Lead (as Pb)	0.024	1	µg/m ³	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.43	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I, 36/2012-13, Page No.35: 2013
Benzene (C ₆ H ₆)	2.92	5	µg/m ³	IS 5182 (Part II) : 2006
Benzo (a) pyrene (BaP) Particulate Phase only	BLQ (LOQ:0.2)	1	ng/m ³	IS 5182 (Part 12): 2004
Arsenic (as As)	BLQ (LOQ:0.3)	6	ng/m ³	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.4
Nickel (as Ni)	BLQ (LOQ:3)	20	ng/m ³	EPA/625/R-96/D10 a Compendium Method 10-3.1 & 3.2

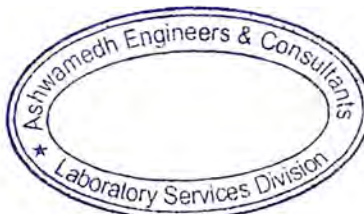
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

TWA : Time Weighted Average

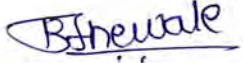
: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

B. Shewale

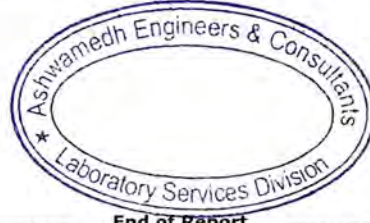
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Section In-Charge (Chemical)
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Sample ID : AA/03/23/0200	Report No. AA/03/23/0200	Report Date	14/03/2023
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/03/23/0201	Report No. AA/03/23/0201	Report Date	14/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	Near Mr. Anil Nikam House	Date - Sampling	06/03/2023 to 07/03/2023
Sample Quantity / Packing	PM ₁₀ , Bap, Metals: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 1 x 6 no. charcoal tubes CO: 1 x 1 no. bladder	Date - Receipt of Sample	07/03/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	07/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	13/03/2023

Meteorological Data / Environmental Conditions

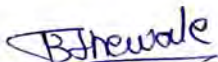
Average Wind Velocity 1.14 km/h	Wind Direction S-N	Relative Humidity (Max./Min.): 58/41%	Temperature (Max./Min.): 28/18°C	Duration of Survey 24 h
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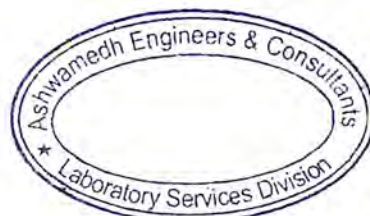
Parameter	Result	NAAQS# 2009	Unit	Method
Chemical Testing; Group: Atmospheric Pollution				
Sulphur Dioxide (SO ₂)	6.95	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	14.0	80	µg/m ³	IS 5182 (Part 6): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	62	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	16	60	µg/m ³	CPCB Guideline, Volume I, 36/2012-13, Page No.15: 2013
Ozone (O ₃)	BLQ (LOQ:19.6)	180	µg/m ³	Methods of Air Sampling and Analysis (AWMA), 3rd Ed., Method 411, Page no. 403 :1988
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2
Carbon Monoxide (CO)	1.61	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH ₃)	BLQ (LOQ:20)	400	µg/m ³	CPCB Guidelines, Volume I, 36/2012-13, Page No.35: 2013
Benzene (C ₆ H ₆)	2.25	5	µg/m ³	IS 5182 (Part II): 2006
Benzo (a) pyrene (BaP) Particulate Phase only	BLQ (LOQ:0.2)	1	ng/m ³	IS 5182 (Part 12): 2004
Arsenic (as As)	BLQ (LOQ:0.3)	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.4
Nickel (as Ni)	BLQ (LOQ:3)	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 & 3.2

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

TWA : Time Weighted Average

: NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.


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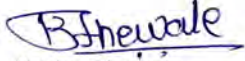


Sample ID : AA/03/23/0201

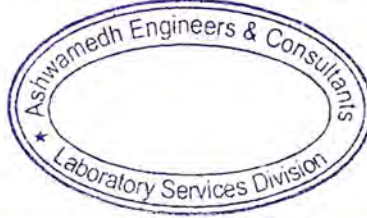
Report No. AA/03/23/0201

Report Date

14/03/2023



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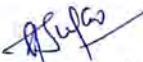
TEST REPORT

Sample ID : E/03/23/056	Report No. E/03/23/056	Report Date	10/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Untreated Trade Effluent
Sampling Location	ETP Inlet	Date - Receipt of Sample	06/03/2023
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Start of Analysis	06/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	09/03/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution and Environment				
1	pH	6.50	-	IS 3025 (Part II):1983
2	Total Suspended Solids	180	mg/L	IS 3025 (Part I7):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	342	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	1000	mg/L	APHA, 23rd Ed., 5220-B, 5-18
5	Total Dissolved Solids	850	mg/L	IS 3025 (Part 16):1984
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23rd Ed., 5520-B, 5-42
7	Chloride (as Cl)	194	mg/L	IS 3025 (Part 32):1988
8	Sulphate (as SO ₄)	180	mg/L	IS 3025 (Part 24):1986
9	Ammonical Nitrogen (as NH ₃ -N)	86.1	mg/L	APHA, 23rd Ed., 4500 NH3, F. 4 -119

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Note: Sample ID E/03/23/056 bears two Test Reports - E/03/23/056 and E/03/23/056N


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TEST REPORT

Sample ID : E/03/23/056	Report No. E/03/23/056N	Report Date	10/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Untreated Trade Effluent
Sampling Location	ETP Inlet	Date - Receipt of Sample	06/03/2023
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Start of Analysis	06/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	09/03/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution and Environment				
1	Percent Sodium	52	%	By calculation
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				
Note: Sample ID E/03/23/056 bears two Test Reports - E/03/23/056 and E/03/23/056N				


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TEST REPORT

Sample ID : E/03/23/057	Report No. E/03/23/057	Report Date	10/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Treated Trade Effluent
Sampling Location	ETP Outlet	Date - Receipt of Sample	06/03/2023
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Start of Analysis	06/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	09/03/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution and Environment				
1	pH	7.56	-	IS 3025 (Part II):1983
2	Total Suspended Solids	8	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	7	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	30	mg/L	APHA, 23rd Ed., 5220-B, 5-18
5	Total Dissolved Solids	400	mg/L	IS 3025 (Part 16):1984
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23rd Ed., 5520-B, 5-42
7	Chloride (as Cl)	85	mg/L	IS 3025 (Part 32):1988
8	Sulphate (as SO ₄)	51.2	mg/L	IS 3025 (Part 24):1986
9	Ammonical Nitrogen (as NH ₃ -N)	BLQ (LOQ:0.1)	mg/L	APHA, 23rd Ed., 4500 NH3, F, 4 -119

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Note: Sample ID E/03/23/057 bears two Test Reports - E/03/23/057 and E/03/23/057N


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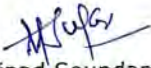


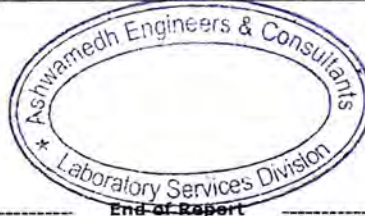


TEST REPORT

Sample ID : E/03/23/057	Report No. E/03/23/057N	Report Date	10/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Treated Trade Effluent
Sampling Location	ETP Outlet	Date - Receipt of Sample	06/03/2023
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Start of Analysis	06/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	09/03/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution and Environment				
1	Percent Sodium	43.8	%	By calculation
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				
Note: Sample ID E/03/23/057 bears two Test Reports - E/03/23/057 and E/03/23/057N				


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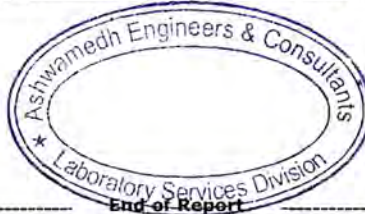


TEST REPORT

Sample ID : E/03/23/058	Report No. E/03/23/058	Report Date	10/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	STP Inlet	Date - Receipt of Sample	06/03/2023
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Start of Analysis	06/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	09/03/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH	7.08	-	IS 3025 (Part II):1983
2	Total Suspended Solids	70	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	53	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	200	mg/L	APHA, 23rd Ed., 5220-B, 5-18
5	Total Dissolved Solids	1470	mg/L	IS 3025 (Part 16):1984
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23rd Ed., 5520-B, 5-42
7	Chloride (as Cl)	275	mg/L	IS 3025 (Part 32):1988
8	Sulphate (as SO ₄)	86	mg/L	IS 3025 (Part 24):1986
9	Ammonical Nitrogen (as NH ₃ -N)	84	mg/L	APHA, 23rd Ed., 4500 NH3, F, 4 -119
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/03/23/058 bears two Test Reports - E/03/23/058 and E/03/23/058N				


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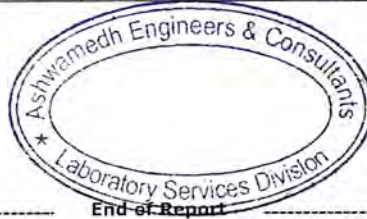


TEST REPORT

Sample ID : E/03/23/058	Report No. E/03/23/058N	Report Date	10/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Untreated Sewage Effluent
Sampling Location	STP Inlet	Date - Receipt of Sample	06/03/2023
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Start of Analysis	06/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	09/03/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution and Environment				
1	Percent Sodium	59.6	%	By calculation
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification				
Note: Sample ID E/03/23/058 bears two Test Reports - E/03/23/058 and E/03/23/058N				

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Note:

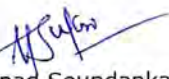
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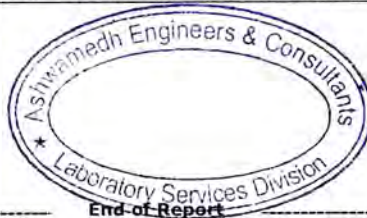


TEST REPORT

Sample ID : E/03/23/059	Report No. E/03/23/059	Report Date	10/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	STP Outlet	Date - Receipt of Sample	06/03/2023
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Start of Analysis	06/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	09/03/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution and Environment				
1	pH	7.77	-	IS 3025 (Part II):1983
2	Total Suspended Solids	8	mg/L	IS 3025 (Part 17):1984
3	Biochemical Oxygen Demand (3 days, 27°C)	23	mg/L	IS 3025 (Part 44):1993
4	Chemical Oxygen Demand	90	mg/L	APHA, 23rd Ed., 5220-B, 5-18
5	Total Dissolved Solids	270	mg/L	IS 3025 (Part 16):1984
6	Oil & Grease	BLQ (LOQ:1)	mg/L	APHA, 23rd Ed., 5520-B, 5-42
7	Chloride (as Cl)	31	mg/L	IS 3025 (Part 32):1988
8	Sulphate (as SO ₄)	16.9	mg/L	IS 3025 (Part 24):1986
9	Ammonical Nitrogen (as NH ₃ -N)	BLQ (LOQ:0.1)	mg/L	APHA, 23rd Ed., 4500 NH3, F. 4 -119
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/03/23/059 bears two Test Reports - E/03/23/059 and E/03/23/059N				


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4. There are no additions to, deviations or exclusions from the method.



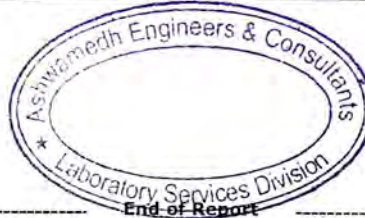


TEST REPORT

Sample ID : E/03/23/059	Report No. E/03/23/059N	Report Date	10/03/2023
Name and address of Customer	Revalyu Recycling (India) Limited (Formerly known as Polygenta Technologies Limited) Gat No. 265/1, 266, Village Avankhed, Tal. Dindori, Dist. Nashik - 422202, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Treated Sewage Effluent
Sampling Location	STP Outlet	Date - Receipt of Sample	06/03/2023
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Start of Analysis	06/03/2023
Order Reference	P.O. No. PO/AMC/006/22-23 dated 07.04.2022	Date - Completion of Analysis	09/03/2023

Sr.No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution and Environment				
1	Percent Sodium	23.1	%	By calculation
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Note: Sample ID E/03/23/059 bears two Test Reports - E/03/23/059 and E/03/23/059N				

Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



End of Report

Note:

1. The result listed refer only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviations or exclusions from the method.

