



Shreyans Industries Limited

(Unit : Shreyans Papers)

Works : AHMEDGARH - 148 021, Distt. Malerkotla, Punjab.

CIN : L17115PB1979PLC003994
Tel # 01675-240347, 0161-5206300
Fax # 91-1675-240512
E-mail : spm@shreyansgroup.com
website : www.shreyansgroup.com

SIL: SP: WORKS: CMD: 2022-23/154

4th November, 2022

The Environmental Engineer
Punjab Pollution Control Board
Regional Office, Industrial Focal Point,
Sunam Road,
SANGRUR-148001

Dear Sir,

We are enclosing herewith "Six Monthly Report (from April, 2022 to September, 2022)"

along with related documents and Consent.

Thanking you.

Yours faithfully,
FOR SHREYANS INDUSTRIES LTD
(Unit: Shreyans Papers)

[RAJNEESH OSWAL]
CHAIRMAN & MANAGING DIRECTOR

Encl: a/a



Shreyans Industries Limited

(Unit : Shreyans Papers)

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Tel # 01675-240347, 0161-5206300
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E-mail : spm@shreyansgroup.com
website : www.shreyansgroup.com

SIL: SP: WORKS: CMD: 2022-23/155

4th November, 2022

Director (S)
Government of India,
Ministry of Environment, Forest & Climate Change
Northern Regional Office,
Bays no. 24-25, Sector - 31 A
Dakshin Marg
Chandigarh-160030

Dear Sir,

Please find enclosed herewith "Six Monthly Report (from April, 2022 to September - 2022)"
along with related documents and consent in soft copy (C.D).

Thanking you.

Yours faithfully,
FOR SHREYANS INDUSTRIES LTD
(Unit: Shreyans Papers)

[RAJNEESH OSWAL]
CHAIRMAN & MANAGING DIRECTOR

Encl: a/a

STACK EMISSION

In-house monitoring

Period	SPM(mg/Nm ³)	
	45 TPH Boiler	Chemical Recovery
From April to September -2022	50-75	60-80

Tested by PPCB: Test report attached as Annexure -1

Date	SPM(mg/Nm ³)	
	45 TPH Boiler	Chemical Recovery
28/06/2022	55	45

WATER CONSUMPTION

Month	Total Qty. during the month (M ³)	Avg. (M ³ / day)
April, 2022	197292	6576
May, 2022	213126	6875
June,2022	205028	6834
July,2022	209988	6774
August,2022	212129	6843
September,2022	213117	7104

AVERAGE TEST RESULTS OF EFFLUENT (In-house monitoring)

Month	RAW WATER				TREATED EFFLUENT			
	PH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)	PH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)
April, 2022	7.0	588	1748	649	7.2	34	227	21
May, 2022	7.0	594	1738	645	7.2	35	228	21
June,2022	7.0	602	1748	648	7.2	35	227	21
July,2022	7.0	603	1741	645	7.2	34	227	21
August,2022	7.0	603	1751	651	7.2	34	228	21
September,2022	7.0	595	1753	650	7.1	34	227	21

FINAL OUTLET DISCHARGE(Tested by PPCB): Test report attached as Annexure .

Date of reporting	Parameters			
	pH	BOD (mg/l)	TSS (mg/l)	COD (mg/l)
28/06/2022	7.7	19	36	224

AMBIENT AIR MONITORING (In house monitoring)

Sr.No.	Date of Monitoring	Sample Location	PM ₁₀ (µg/m ³)
1	08/08/22	Near Guest House	80
2	16/08/2022	Near Dispensary	84
3	22/08/2022	Near Rice Husk yard	96
4	26/08/2022	Near Old Labour Colony	88
			Average = 88.0

AOX LEVEL IN FINAL OUTLET : Test report attached as Annexure -3

Date	AOX (mg/l)	AOX (kg/t of paper)	Tested by
22/12/2021	14.18	0.57	Sophisticated Analytical Instruments Laboratories Society, Patiala

NOISE LEVEL TESTED ON 19/08/2022 (In house monitoring)

Sr. No.	Sample Location	Noise Level (dB)
1	MSBP	78-82
2	TG generator 3.5 MW	80-82
3	Boiler house office	68-70
4	Wet cleaning Plant	70-72
5	Paper Machine (Vacuum pump)	79-82
6	Stock Preparation Deptt.	76-80
7	Main gate	62-64
8	Guest house	44-46
9	Officer's Colony	40-42
10	Cutter / Rewinder	80-82

Annexure-1



PUNJAB POLLUTION CONTROL BOARD AIR LABORATORY, HEAD OFFICE, VATAVARAN BHAWAN, PATIALA

Ph:- 0175-2302392

Web: www.ppcb.gov.in
E-mail: ppcbairlab@gmail.com

- | | |
|--|---|
| 1. Laboratory Sample No. | 616-617/H.O. Lab./Air Monitoring/2022-23 |
| 2. Name of Industry | M/s Shreyans Industries Ltd. (Unit Shreyans Papers),
Ahmedgarh, Distt. Malerkotla. |
| 3. Name of Sample collecting Officer | Er. Vipan Kumar, AEE, Dr. Sonam Dogra, SA |
| 4. Designation of authorizing Test | EE, RO, Sangrur |
| 5. Type of Sample | Stack Emission |
| 6. Date & Time of Sample collection | 28.06.2022 |
| 7. Date & Time of Sample receipt in Lab. | 29.06.2022 |
| 8. Point of Sample collection | Details as Given Below |

AFSM
 ਨਵੀਂ ਡਾਕ
 ਦਿਨ: ਦਿਨ:
 2266
 7/7/22

Results

Point of sample Collection	Parameter	Results	Prescribed Standards
From Port hole on stack after APCD of Boiler Furnace of Capacity 45 TPH	Particulate Matter	55 mg/Nm ³ at 12% of CO ₂	150 mg/Nm ³ at 12% CO ₂
From Port hole on stack after APCD of Old CRP (Chemical Recovery Plant)	Particulate Matter	45 mg/Nm ³	150 mg/Nm ³

Note: If any, stringent limits/specific standard has been prescribed time to time by MoEF & CC, CPCB and PPCB, then stringent limits/specific standard would prevail subject to clarification from the concerned Regional office

Scientific Officer
 (Air Lab)

Endst. No: 14336-38

Dt. 05-07-22

A copy of the above is forwarded to the following for information and necessary action:-

1. The Chief Environmental Engineer, Punjab Pollution Control Board (Air), Jalandhar
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal Office-II Patiala
3. The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Sangrur

Scientific Officer
 (Air Lab)

**PUNJAB POLLUTION CONTROL BOARD, VATAVARAN BHAVAN,
NAHHA ROAD, PATIALA
WATER ANALYSIS REPORT**

2482
26/7/22

- 1. Laboratory Sample No. F 614-617/HO Lab. Monitoring/2022
- 2. ULR No. ULR-TC70451800000005030
- 3. Name of Industry M/s Shreyans Industries Ltd, Ahmedgarh Dist. Sangrur
- 4. Name of Sample collecting Officer Er. Rajeev Gupta, EE & Er. Vipin Kumar, AEE
- 5. Designation of the officer authorizing Test Environmental Engineer, Regional Office, Sangrur
- 6. Type of Sample Grab
- 7. Date & Time of Sample collection 28.06.2022
- 8. Date & Time of Sample receipt in Lab 29.06.2022
- 9. Period of Analysis 29.06.2022 to 11.07.2022
- 10. Test Methods As per relevant parts of IS-3025/IS:1622 & Methods of APHA

Signature
 31K
 ਨਵੀਂ ਡਾਕ
 ਟਿਕਾ: ਟਿਕਾ:

Results

Sr. No.	Parameters	Inlet of ETP	Outlet of ETP	Aeration Tank-I	Aeration Tank-II	Prescribed Standard
1	pH	7.1	7.7	-	-	6.5-8.5
2	Total Suspended Solids mg/l	784	36	-	-	50
3	Bio-chemical Oxygen Demand mg/l	600	19	-	-	30
4	Chemical Oxygen Demand mg/l	2180	224	-	-	150
5	Mixed Liquid Suspended Solids mg/l	-	-	3340	7980	-
6	Mixed Liquid Volatile Suspended Solids mg/l	-	-	1420	2510	-

Note: The prescribed standards are EPA Standards. However, if any stringent standards have been decided by the Board, the same shall prevail.

-- End of Report --

Scientific Officer
12/7/22

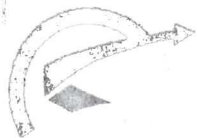
Indst. No. 14802-04

DL 13-7-22

A copy of the above is forwarded to the:-

- 1. The Chief Environment Engineer, Punjab Pollution Control Board, Ludhiana.
- 2. The Senior Environment Engineer, Punjab Pollution Control Board, Zonal Office-II, Patiala.
- 3. The Environment Engineer, Punjab Pollution Control Board, Regional Office, Sangrur.

Asstt. Scientific Officer
12/7/2022



**Sophisticated Analytical Instruments Laboratories
Society** (Registered as Society with Registrar of Firms & Societies, Punjab, Chandigarh)
Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Test Report No.:	NN/21-22/335	Date:	28.12.2021
Service No.	NN/21-22/335 (01)	Customer's Ref.	Sample submitted by PPCB RO Sangrur dtd 23.12.2021 (Ref letter no. RO/SGR/SPL-2 dtd 22.12.2021)
Customer's name and address:			
M/s Shreyans Industries Ltd. Ahmedgarh, Tehsil Malerkotla, Distt. Sangrur (Pb) Kind Attn: Mr. Vipin Jindal (SDO)			
Sample Description		Treated Trade Effluent	
Condition of the sample received		O.K.	
Customer's sample identification No. (if any)		Outlet of ETP	
Quantity/number of samples		Two litre / One	
Sampling Procedure (if any)		--	
Test parameters		AOX	
Standard/Specification/Method followed		ISO: 9562 1989 (E)	
Deviations (if any)		--	
Documents constituting this report (if any)		--	
Date of Receipt of Job		Date of Completion of Job	Total Number of Pages
23.12.2021		28.12.2021	1

TEST RESULTS

S. No.	Parameter	Test Method	Unit	Results
1.	AOX	ISO: 9562 1989 (E)	mg/l	14.18

.....End of the report.....

M. Agarwal
M. Agarwal
Technical Manager
(Authorized Signatory)
SAI/FM/CSC-11



PUNJAB POLLUTION CONTROL BOARD

Zonal Office-II, Vatavaran Bhawan, Nabha Road, Patiala

Website:- www.ppcb.gov.in

Office Dispatch No :

Registered/Speed Post

Date:

Industry Registration ID: R12SGR46532

Application No : 8849376

To,

Anil Kumar
Shreyans Industries Ltd
Ahmedgarh, Sangrur-148021

Subject: Renewal of 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981 for discharge of emissions arising out of premises.

With reference to your application for obtaining Renewal of 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are hereby, authorized to operate an industrial unit for discharge of the emission(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate.

1. Particulars of Consent to Operate under Air Act, 1981 granted to the industry

Consent to Operate Certificate No.	CTOA/Renewal/SGR/2019/8849376
Date of issue :	05/08/2019
Date of expiry :	31/03/2023
Certificate Type :	Renewal
Previous CTO No. & Validity :	R16SGRCTOA4026877 From:20/07/2016 To:31/03/2021

2. Particulars of the Industry

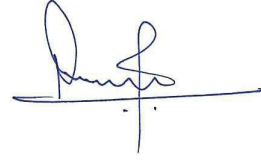
Name & Designation of the Applicant	Anil Kumar, (Executive Director & Ceo)
Address of Industrial premises	Shreyans Industries Ltd, Unit:shreyans Papers, Malerkotla, Sangrur-148021
Capital Investment of the Industry	17187.15 lakhs
Category of Industry	Red
Type of Industry	Pulp & Paper
Scale of the Industry	Large
Office District	Sangrur
Consent Fee Details	Rs 8,19,000/- submitted online vide UTR No. SBINR52019010500063772 dated 05/01/2019

"This is computer generated document from OCMMS by PPCB"

Shreyans Industries Ltd, Unit:shreyans Papers, Malerkotla, Sangrur, 148021

Page 1

Raw Materials (Name with Quantity per day)	<p>Wheat straw @ 73700 MTA Bagasse @ 1028 MTA Ready Pulp (Wood/ Waste Paper Pulp) @ 12380 MTA Chlorine @ 2157 MTA Oxygen @ 240 MTA Sizing chemical @ 1271 MTA Lime @ 1699 MTA Caustic soda @ 13653 MTA Loading chemical @ 14035 MTA Hydrozen Peroxide @ 244 MTA</p>
Products (Name with Quantity per day)	Writing & printing paper @ 54,000 TPA
By-products, if any, (Name with Quantity per day)	Sodium carbonate @ 55 MTD
Details of the machinery and process	As per details given in application no.8849376 (For Paper) - Raw Material , Pulping , Digestion , Washing , Bleaching, Machining , Drying , Cutting Product, (For Soda Ash) - Black liquor, Evaporation , Combustion , Product
Quantity of fuel required (in TPD) and capacity of boilers/ Furnace/Thermo heater etc.	<p>Boiler of capacity 45 TPH - Rice Husk @ 240 TPD Boiler (Standby) of capacity 20 TPH - Rice Husk @115 TPD Boiler (Standby) of capacity 20 TPH - Rice Husk @115 TPD Chemical recovery - Black liquor 152.78 TPD Chemical recovery (standby) - Black liquor 152.78 TPD 2 no. DG set of capacity 300 KVA & 600 KVA- HSD</p>
Type of Air Pollution Control Devices to be installed	<p>Boiler of capacity 45 TPH - ESP Boiler (Standby) of capacity 20 TPH - ESP Boiler (Standby) of capacity 20 TPH - ESP Chemical recovery - Venturi scrubber Chemical recovery (standby) - Venturi scrubber 2 no. DG set of capacity 300 KVA & 600 KVA- Canopies</p>
Stack height provided with each boiler/thermo heater/Furnace etc.	<p>Boiler of capacity 45 TPH - Stack of height 41 mtr above ground level Boiler (Standby) of capacity 20 TPH - Stack of height 42 mtr above ground level Boiler (Standby) of capacity 20 TPH - Stack of height 42 mtr above ground level Chemical recovery - Stack of height 40.15 mtr above ground level Chemical recovery (standby) - Stack of height 30 mtr above ground level DG set of capacity 300 KVA - Stack of height 3.5 mtr above roof level DG set of capacity 600 KVA- The Stack height H (in mtr) shall be as per the formula given below: $H = h + 0.2 (KVA)^{0.5}$ where h= height of the building in meters where the generator set is installed. FBR Existing 30(Ground Level)/14.75(Roof Level)</p>
Sources of emissions and type of pollutants	<p>Boiler of capacity 45 TPH - SPM Boiler (Standby) of capacity 20 TPH - SPM Boiler (Standby) of capacity 20 TPH - SPM Chemical recovery - SPM Chemical recovery (standby) - SPM 2 no. DG set of capacity 300 KVA & 600 KVA- SPM, SOx, NOx</p>
Standards to be achieved under Air(Prevention & Control of Pollution) Act, 1981	As per emission standards prescribed by PPCB/ MoEF & CC.



05/08/2019

(Rajeev Gupta)
Environmental Engineer

For & on behalf

of

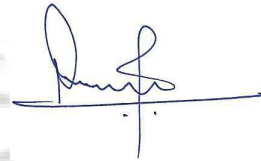
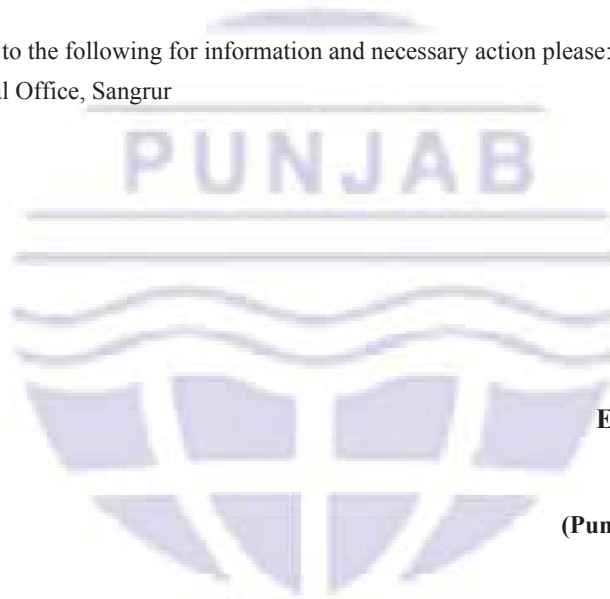
(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

Environmental Engineer, Regional Office, Sangrur



05/08/2019

(Rajeev Gupta)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

TERMS AND CONDITIONS

A. GENERAL CONDITIONS

1. This consent is not valid for getting power load from the Punjab State Power Corporation Ltd. or for getting loan from the financial institutions.
2. The industry shall apply for renewal /extension of consent at least two months before expiry of the consent.
3. The industry shall not violate any of the norms prescribed under the Air (Prevention & Control of Pollution) Act, 1981, failing which, the consent shall be cancelled / revoked.
4. The achievement of adequacy and efficiency of the air pollution control devices installed shall be the entire responsibility of the industry
5. The authorized fuel being used shall not be changed without the prior written permission of the Board.
6. The industry shall not discharge any fugitive emissions. All gases shall be emitted through a stack of suitable height, as per the norms fixed by the Board from time to time.
7. The industry shall provide port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets.

Specifications of the port-holes shall be as under:-

- i) The sampling ports shall be provided atleast 8 times chimney diameter downstream and 2 times upstream from the flow disturbance. For a rectangular cross section the equivalent diameter (D_e) shall be calculated from the following equation to determine upstream, downstream distance:-
$$D_e = 2 LW / (L+W)$$

Where L= length in mts. W= Width in mts.
 - ii) The sampling port shall be 7 to 10 cm in diameter
8. The industry shall put display Board indicating environmental data in the prescribed format at the main entrance gate.
 9. The industry shall discharge all gases through a stack of minimum height as specified in the following standards laid down by the Board.

(i) Stack height for boiler plants

S.NO.	Boiler with Steam Generating Capacity	Stack heights
1.	Less than 2 ton/hr.	9 meters or 2.5 times the height of neighboring building which ever is more
2.	More than 2 ton/hr. to 5 ton/hr.	12 meters
3.	More than 5 ton/hr. to 10 ton/hr	15 meters
4.	More than 10 ton/hr. to 15 ton/hr	18 meters
5.	More than 15 ton/hr. to 20 ton/hr	21 meters
6.	More than 20 ton/hr. to 25 ton/hr.	24 meters
7.	More than 25 ton/hr. to 30 ton/hr.	27 meters
8.	More than 30 ton/hr.	30 meters or using the formula $H = 14 Q_g^{0.3}$ or $H = 74 (Q_p)^{0.24}$ Where Q_g = Quantity of SO ₂ in Kg/hr. Q_p = Quantity of particulate matter in Ton/day.

Note : Minimum Stack height in all cases shall be 9.0 mtr. or as calculated from relevant formula whichever is more.

(ii) For industrial furnaces and kilns, the criteria for selection of stack height would be based on fuel used for the corresponding steam generation.

(iii) Stack height for diesel generating sets:

Capacity of diesel generating set	Height of the Stack	
0-50 KVA	Height of the building	+ 1.5 mt
50-100 KVA	-do-	+ 2.0 mt.
100-150 KVA	-do-	+ 2.5 mt.
150-200 KVA	-do-	+ 3.0 mt.
200-250 KVA	-do-	+ 3.5 mt.
250-300 KVA	-do-	+ 3.5 mt.

For higher KVA rating stack height H (in meter) shall be worked out according to the formula:

$$H = h + 0.2 (KVA)^{0.5}$$

where h = height of the building in meters where the generator set is installed.

10. The pollution control devices shall be interlocked with the manufacturing process of the industry to ensure its regular operation.
11. The existing pollution control equipment shall be altered or replaced in accordance with the directions of the Board, and no pollution control equipment or chimney shall be altered or as the case may be erected or re-erected except with the prior approval of the Board.
12. The industry will provide canopy and adequate stack with the D.G sets so as to comply with the provision of notification No GSR-371 E dated 17-5-2002(amended from time to time) issued by MOEF under Environment (Protection) Act, 1986.
13. The Govt. of Punjab, Department of Science, Technology & Environment vide its notification no.4/46/92-3ST/2839 dt. 29/12/1993 has put prohibition on the use of rice husk as fuel after 1.4.1995 except the following:-

½In the form of briquettes and use of rice husk in fluidized bed combustion. So the industry shall make the necessary arrangement to comply with the above notification.½

14. The industry shall submit balance sheet of every financial year to the concerned Regional Office by 30th June of every year
15. That the industry shall submit a yearly certificate to the effect that no addition / up-gradation/ modification/ modernization has been carried out during the previous year otherwise the industry shall apply for the varied consent.
16.
 - a) The industry shall ensure that at any time the emission do not exceed the prescribed emissions standards laid down by the Board from time to time for such type of industry /emissions.
 - b) The industry shall ensure that the emissions from each stack shall conform to the following emission standards laid down by the Board in respect of the Industrial Boilers.

Steam Generating capacity A.	Required particulate matter B.	
<i>Area upto 5 Km from Other than 'A' class Other than the periphery of I and Class-II town</i>		
<i>Less than 2 ton/hr.</i>	800 mg/NM3	1200 mg/NM3
<i>2 ton to 10 ton/hr.</i>	500 mg/NM3	1000 mg/NM3
<i>Above 10 ton to 15 ton/hr</i>	350 mg/NM3	500 mg/NM3
<i>Above 15 ton/hr</i>	150 mg/NM3	150 mg/NM3

All emissions normalized to 12% carbon dioxide.

17. The industry shall ensure that the Hazardous Wastes generated from the premises are handled as per the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, without any adverse effect on the environment, in any manner.
18. The air pollution control equipments shall be kept at all time in good running condition and;

- (i) All failures of control equipments.
 - (ii) The emissions of any air pollutant into the atmosphere in excess of the standards lay down by the Board occurring or being apprehended to occur due to accident or other unforeseen act or event. 'Shall be intimated through fax to the concerned Regional Office as well as to the Director of Factories, Punjab, Chandigarh as required under rule 10 of the Punjab State Board for the Prevention and Control of Air Pollution Rules, 1983'.
19. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per hectare all along the boundary of the industrial premises.
20. The industry shall submit a site emergency plan approved by the Chief Inspector of Factories, Punjab as applicable.
21. The industry shall comply with the conditions imposed by the SEIAA/MOEF in the Environmental Clearance granted to it as required under EIA notification dated 14/9/06, if applicable.
22. The industry shall make necessary arrangements for the monitoring of stack emissions and shall get its emissions analyzed from lab approved / authorized by the Board:-
 - (i) Once in Year for Small Scale Industries.
 - (ii) Twice/thrice/four time in a Year for Large/Medium Scale Industries.
23. The industry shall maintain the following record to the satisfaction of the Board :-
 - (i) Log books for running of air pollution control devices or pumps/motors used for it.
 - (ii) Register showing the result of various tests conducted by the industry for monitoring of stack emissions and ambient air.
 - (iii) Register showing the stock of absorbents and other chemicals to be used for scrubbers.
24. The industry will install the separate energy meter for running pollution control devices and shall maintain record with respect to operation of air pollution control device so as to satisfy the Board regarding the regular operation of air pollution control device and monthly reading / record may be sent to the Board by the fifth of the following month.
25. The industry shall provide online monitoring system as applicable, for in stack emission and shall maintain the record of the same for inspection of the Board Officers.
26. The Board reserves the right to revoke the consent granted to the industry at any time, in case the industry is found violating the provisions of Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time.
27. The industry shall comply with any other conditions laid down or directions issued in due course by the Board under the provisions of the Air (Prevention & Control of Pollution) Act, 1981.
28. Nothing in this consent shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected to under this or any other Act.
29. Any amendments/revisions made by the Board/CPCB/MOEF in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions.
30. The industry shall dispose off its solid waste generated by the burning of fuel in an Environmentally Sound Manner within the premises/outside as approved by the Board, to avoid public nuisance and air pollution problem in the area.
31. The industry shall ensure that no air pollution problem or public nuisance is created in the area due to the discharge of emissions from the industry.
32. The industry shall provide adequate arrangement for fighting the accidental leakage/discharge of any air pollutant/gas/ liquids from the vessels, mechanical equipment's etc, which are likely to cause environmental pollution.
33. The industry shall not change or alter the manufacturing process(es) and fuel so as to change the quality/quantity of emissions generated without the prior permission of the Board.
34. The industry shall earmark a land within their premises for disposal of boiler ash in an environmentally sound manner, and / or the industry shall make necessary arrangements for proper disposal of fuel ash in a scientific manner and shall maintain proper record for the same, if applicable.
35. The industry shall obtain and submit Insurance cover under the Public Liability Insurance Act, 1991.
36. The industry shall provide proper and adequate air pollution control arrangements for control emission from its fuel handling area, if applicable.

37. The industry shall comply with the code of practice as notified by the Government/Board for the type of industries where the siting guidelines / Code of Practice have been notified.
38. The industry shall not cause any nuisance/traffic hazard in vicinity of the area
39. The industry shall ensure that the noise & air emission from D.G. sets do not exceed the standards prescribed for D.G. sets by the Ministry of Environment & Forests, New Delhi.
40. The industry shall ensure that there will not be significant visible dust emissions beyond the property line
41. The industry shall provide adequate and appropriate air pollution control devices to contain emissions from handling, transportation and processing of raw material & product of the industry.
42. The Industry shall ensure that its production capacity does not exceed the capacity mentioned in the consent and shall not carry out any expansion without the prior permission / NOC of the Board.

B. SPECIAL CONDITIONS

1. The industry shall not use any unauthorized fuel in its premises under any circumstance.
2. The industry shall get its stack emission sample analysed from the Board's lab as per protocol fixed by the Board for such type of units.
3. The industry shall ensure that no air pollution problem / public nuisance / odour problem is created in the area due to discharge of emissions from its industrial premises
4. The industry shall not carryout expansion in its unit without obtaining permission of the Board
5. The industry shall ensure that it will not emit the black smoke under any circumstances.
6. The industry shall operate its APCD regularly & efficiently to achieve stack emission standards laid down by the Board for such type of units all the times.
7. The industry shall maintain good house keeping in its industrial premises all the times.
8. The industry shall operate only one Fluidized Bed Rector (FBR) at a time and other FBR will be act as standby.



05/08/2019

(Rajeev Gupta)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)



PUNJAB POLLUTION CONTROL BOARD

Zonal Office-II, Vatavaran Bhawan, Nabha Road, Patiala

Website:- www.ppcb.gov.in

Office Dispatch No :

Registered/Speed Post

Date:

Industry Registration ID: R12SGR46532

Application No : 8849452

To,

Anil Kumar
Shreyans Industries Ltd
Ahmedgarh, Sangrur-148021

Subject: Renewal of 'Consent to Operate' an outlet u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 for discharge of effluent.

With reference to your application for obtaining Renewal of Consent to Operate an outlet for discharge of the effluent u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974, you are, hereby, authorized to operate an industrial unit for discharge of the effluent(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate.

1. Particulars of Consent to Operate under Water Act, 1974 granted to the industry

Consent to Operate Certificate No.	CTOW/Renewal/SGR/2019/8849452
Date of issue :	05/09/2019
Date of expiry :	31/03/2023
Certificate Type :	Renewal
Previous CTO No. & Validity :	R16SGRCTOW4026952 From: 20/07/2016 To: 31/03/2021

2. Particulars of the Industry

Name & Designation of the Applicant	Anil Kumar, (Executive Director & Ceo)
Address of Industrial premises	Shreyans Industries Ltd, Unit: shreyans Papers, Malerkotla, Sangrur-148021
Capital Investment of the Industry	17187.15 lakhs
Category of Industry	Red
Type of Industry	Pulp & Paper
Scale of the Industry	Large
Office District	Sangrur
Consent Fee Details	Rs 8,19,000/- submitted online vide UTR No. SBINR52019010500062909 dated 05/01/2019

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Shreyans Industries Ltd, Unit: shreyans Papers, Malerkotla, Sangrur, 148021

Page 1

Raw Materials(Name with quantity per day)	Wheat straw @ 73700 MTA Bagasse @ 1028 MTA Ready Pulp (Wood/ Waste Paper Pulp) @ 12380 MTA Chlorine @ 2157 MTA Oxygen @ 240 MTA Sizing chemical @ 1271 MTA Lime @ 1699 MTA Caustic soda @ 13653 MTA Loading chemical @ 14035 MTA Hydrozen Peroxide @ 244 MTA
Products (Name with quantity per day)	Writing & printing paper @ 54,000 TPA
By-Products, if any,(Name with quantity per day)	Sodium Carbonate @ 55 Metric Tonnes/Day
Details of the machinery and processes	As per details given in application no. 8849452 (For Paper) - Raw Material Pulping Digestion Washing Bleaching Machining Drying Cutting Product (For Soda Ash) - Black liquour Evaporation Combustion Product
Details of the Effluent Treatment Plant	The industry has installed effluent treatment plant consisting of Anaerobic Plant, Primary Clarifier, Aeration tank-1, Secondary clarifier-I, Aeration tank-2, Secondary clarifier -II & sludge filter press to treat trade effluent @ 10,000 KLD Domestic Effluent @ 100 KLD- septic tank
Mode of Disposal	Trade Effluent- The industry has developed 134.686 Acres Plantation area to utilize the treated trade effluent and a part of the treated trade effluent is being discharged into Tallewal drain during no demand period. Domestic Effluent- Onto land for plantation after passing through septic tank
Standards to be achieved under Water(Prevention & Control of Pollution) Act, 1974	As per effluent standards prescribed by PPCB/ MoEF & CC.



05/09/2019

(Rajeev Gupta)
Environmental Engineer

For & on behalf

of

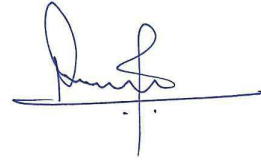
(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

Environmental Engineer, Regional Office, Sangrur



05/09/2019

(Rajeev Gupta)
Environmental Engineer

For & on behalf
of

(Punjab Pollution Control Board)



TERMS AND CONDITIONS

A. GENERAL CONDITIONS

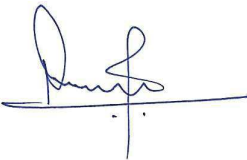
1. This consent is not valid for getting power load from the Punjab State Power Corporation Limited or for getting loan from the financial institutions.
2. The industry shall apply for renewal/further extension in validity of consent atleast two months before expiry of the consent.
3. The industry shall ensure that the effluent discharging through the authorized outlet shall confirm to the prescribed standards as applicable from time to time.
4. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per hectare all along the boundary of the industrial premises.
5. The achievement of the adequacy and efficiency of the effluent treatment plant/pollution control devices/re-circulation system installed shall be the entire responsibility of the industry.
6. The industry shall ensure that the Hazardous Wastes generated from the premises are handled as per the provisions of the Hazardous Wastes(Management, Handling and Trans boundary Movement) Rules, 2008 as amended time to time , without any adverse effect on the environment, in any manner
7. The responsibility to monitor the effluent discharged from the authorized outlet and to maintain a record of the same rests with the industry. The Board shall only test check the accuracy of these reports for which the industry shall deposit the samples collection and testing fee with the Board as and when required.
8. The industry shall submit balance sheet of every financial year to the concerned Regional Office by 30th June of every year.
9. The industry shall submit a yearly certificate to the effect that no addition/up-gradation/ modification/modernization has been carried out during the previous year otherwise the industry shall apply for the varied consent.
10. During the period beginning from the date of issuance and the date of expiration of this consent, the applicant shall not discharge floating solids or visible foam.
11. Any amendments/revisions made by the Board in the tolerance limits for discharges shall be applicable to the industry from the date of such amendments/revisions.
12. The industry shall not change or alter the manufacturing process(es) so as to change the quality and/or quantity of the effluents generated without the written permission of the Board.
13. Any upset conditions in the plant/plants of the factory, which is likely to result in increased effluent and/or result in violation of the standards lay down by the Board shall be reported to the Environmental Engineer, Punjab Pollution Control Board of concerned Regional Office immediately failing which any stoppage and upset conditions that come to the notice of the Board/its officers, will be deemed to be intentional violation of the conditions of consent.
14. The industry shall provide terminal manhole(s) at the end of each collection system and a manhole upstream of final outlet (s) out of the premises of the industry for measurement of flow and for taking samples.
15. The industry shall for the purpose of measuring and recording the quantity of water consumed and effluent discharged, affix meters of such standards and at such places as approved by the Environmental Engineer, Punjab Pollution Control Board of the concerned Regional Office.
16. The industry shall maintain record regarding the operation of effluent treatment plant i.e. record of quantity of chemicals and energy utilized for treatment and sludge generated from treatment so as to satisfy the Board regarding regular and proper operation of pollution control equipment.
17. The industry shall provide online monitoring equipment_{1/2}s for the parameters as decided by concerned Regional Office with the effluent treatment plant/air pollution control devices installed, if applicable.
18. The pollution control devices shall be interlocked with the manufacturing process of the industry.
19. The authorized outlet and mode of disposal shall not be changed without the prior written permission of the Board.
20. The industry shall comply with the conditions imposed by the SEIAA / MOEF in the environmental clearance granted to it as required under EIA notification dated 14/9/06, if applicable.
21. The industry shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991.
22. The industry shall not use any unauthorized out-let(s) for discharging effluents from its premises. All unauthorized outlets, if any, shall be connected to the authorized outlet within one month from the date of issue of this consent.

23. The industry shall make necessary arrangements for the monitoring of effluent being discharged by the industry and shall monitor its effluents:-
 - (i) Once in Year for Small Scale Industries.
 - (ii) Four in a Year for Large/Medium Scale Industries.
 - (iii) The industry will submit monthly reading/ data of the separate energy meter installed for running of effluent treatment plant/re-circulation system to the concerned Regional Office of the Board by the 5th of the following month.
24. The industry shall provide electromagnetic flow meters at the source of water supply, at inlet/outlet of effluent treatment plant within one month and shall maintain the record of the daily reading and submit the same to the concerned Regional Office by the 5th of the following month.
25. The Board reserves the right to revoke this consent at any time in case the industry is found violating any of the conditions of this consent and/or the provisions of Water (Prevention & Control of Pollution) Act, 1974 as amended from time to time.
26. The issuance of this consent does not convey any property right in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local Laws or Regulations.
27. The consent does not authorize or approve the construction of any physical structures or facilities for undertaking of any work in any natural watercourse.
28. Nothing in this consent shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected under this or any other Act.
29. The industry shall make necessary and adequate arrangements to hold back the effluent in case of failure of septic tank.
30. The diversion or bye pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this consent is prohibited except.
 - (i) Where unavoidable to prevent loss of life or some property damage or
 - (ii) Where excessive storm drainage or run off would damage facilities necessary for compliance with terms and conditions of this consent. The applicant shall immediately notify the consent issuing authority in writing of each such diversion or bye-pass.
31. The industry shall ensure that no water pollution problem is created in the area due to discharge of effluents from its industrial premises.
32. The industry shall comply with the code of practice as notified by the Government/ Board for the type of industries where the siting guidelines/ code of practice have been notified.
33. Solids, sludge, filter backwash or other pollutant removed from or resulting from treatment or control of waste waters shall be disposed off in such a manner to prevent any pollutants from such materials from entering into natural water.
34. The industry shall re-circulate the entire cooling water and shall also re-circulate/reuse to the maximum extent the treated effluent in processes
35. The industry shall make necessary and adequate arrangements to hold back the effluent in case of failure of re-circulation system/ effluent treatment plant.
36. The industry shall make proper disposal of the effluent so as to ensure that no stagnation occurs inside and outside the industrial premises during rainy season and no demand period.
37. Where excessive storm water drainage or run off, would damage facilities necessary for compliance with terms and conditions of this consent, the applicant shall immediately notify the consent issuing authority in writing of each such diversion or bye-pass.
38. The industry shall submit a detailed plan showing therein the distribution system for conveying waste-water for application on land for irrigation along with the crop pattern for the year.
39. The industry shall ensure that the effluent discharged by it is toxicity free.
40. The industry shall not irrigate the vegetable crops with the treated effluents which are used/ consumed as raw.
41. Drains causing oil & grease contamination shall will be segregated. Oil & grease trap shall be provided to recover oil & grease from the effluent.

42. The industry shall establish sufficient number of piezometer wells in consultation with the concerned Regional Office, of the Board to monitor the impact on the Ground Water Quantity due to the industrial operations, and the monitoring shall be submitted to the Environmental Engineer of the concerned Regional Office by the 5th of every month.
43. The industry shall ensure that its production capacity & quantity of trade effluent do not exceed the quantity mentioned in the consent and shall not carry out any expansion without the prior permission/NOC of the Board.

B. SPECIAL CONDITIONS

1. This consent is issued in suppression of earlier consent granted under the Water (Prevention & Control of Pollution) Act, 1974 vide no. R16SGRCTOW4026952 dated 20.07.2016 valid upto 31.03.2021.
2. The industry shall not carryout expansion in its unit without obtaining permission of the Board under any circumstance.
3. The industry shall comply with the guidelines issued by Central Ground Water Authority (CGWA) from time to time.
4. The industry shall not seek any additional power load for this consented production capacity at any time.
5. The industry will maintain and operate its Effluent Treatment Plant (ETP), regularly and efficiently to achieve the effluent standards, consistently.
6. The industry shall maintain plantation area in good conditions to utilize treated trade as well as domestic effluent after treatment onto land for plantation.
7. The industry shall discharge the treated effluent onto land for plantation and shall achieve the standards laid down laid down by the Board all the times.
8. The industry shall utilize max. quantity of treated trade effluent onto land for plantation and only excess quantity of treated trade effluent shall be discharged into Tallewal drain during no demand period.
9. The industry shall explore the possibility of development of additional plantation area so that during no demand period, no treated trade effluent shall be discharged into Tallewal drain and same can be utilized onto land for plantation.
10. The industry shall maintain the records of ground water abstracted, used into process, trade effluent generated and discharged onto land for plantation and same shall submit the same to the Board on regular basis.
11. The industry shall store ETP sludge in an environmentally sound manner before its disposal and also maintain the record of sludge generated and disposed off.
12. The industry shall maintain good house keeping in an around ETP area.
13. The industry shall ensure proper drainage / slope of raw material storage area, so that it does not spills outside premises and during rainy season, leachate if any is collected and diverted towards ETP for treatment.



05/09/2019

(Rajeev Gupta)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)



PUNJAB POLLUTION CONTROL BOARD
Zonal Office-2, Vatavaran Bhawan, Nabha Road, Patiala - 147001.
Website:- www.ppcb.gov.in

Office Dispatch No : _____ Registered/Speed Post _____ Date: _____
Industry Registration ID : R12SGR46532 _____ Application No : 17307124

To,

Anil Kumar
Shreyans Industries Ltd
Ahmedgarh,Sangrur-148021

Subject: **Renewal of Authorization for operating a facility for 'Collection, Generation, Storage, Disposal, ' of Hazardous Wastes as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 .**

Anil Kumar of Shreyans industries ltd is hereby granted an authorisation based on the enclosed signed inspection report for Collection, Generation, Storage, Disposal, on the premises situated at Unit:shreyans papers, Malerkotla, Sangrur-148021

1. Particulars of Authorization granted to the Industry

Authorization No	HWM/renew/SGR/2022/17307124
Previous Authorization No	HWM/Fresh/SGR/2017/4636290
Date of issue :	14/03/2022
Date of expiry :	31/03/2026
Previous Authorization Date of Issue :	13/01/2017
Previous Authorization Date of Expiry :	31/12/2021
Authorization Type :	renew

2. Particulars of the Industry

Name & Designation of the Applicant	Anil Kumar, (Executive Director & CEO)
Address of Industrial premises	Shreyans industries ltd, Unit:shreyans papers, Malerkotla,Sangrur-148021
Capital Investment of the Industry	17187.15 lakhs
Category of Industry	Red
Type of Industry	Pulp & Paper
Scale of the Industry	Large
Office District	Sangrur

3. Particulars of Wastes

Category of Hazardous Waste as per the Schedules I,II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc	Quantity (ton/annum)
Schedule I 5.1-Used or spent oil	Generation , Collection , Storage , Disposal	0.5 KL/Annum
Schedule I 32.2-Corrosive wastes arising from use of strong acid and bases	Generation , Collection , Storage , Disposal	4.015 T/Annum
Schedule I 32.3-Process sludge containing adsorbable organic halides(AOX)	Generation , Collection , Storage , Disposal	8030 T/Annum

4. The authorisation is subject to the general and specific conditions as appended with the Authorization.



14/03/2022

(Om Parkash)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

Endst. No.:

Dated:

A copy of the above is forwarded to the following for information and necessary action please:

The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Sangrur. He is requested to ensure the compliance of the authorization conditions and submit report accordingly.

14/03/2022

(Om Parkash)
Environmental Engineer

For & on behalf

of

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Shreyans industries ltd, Unit: shreyans papers, Malerkotla, Sangrur, 148021

Page2



TERMS AND CONDITIONS

A. GENERAL CONDITIONS

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on *Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty*.
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. SPECIFIC CONDITIONS

1. *The industry shall dispose off its Hazardous waste category no. 5.1 of Schedule-I to the authorized recycler / re-processor having valid Registration Certificate-cum-Pass Book from Punjab Pollution Control Board, valid authorization of the Board under the said Rules and 'consents to operate' under the Water Act, 1974 and Air Act, 1981.*
2. *The industry will send its hazardous waste category no. 32.3 of Schedule-I (Paper mill ETP sludge) to the industries namely M/s Menon Board Mill, Sunam, Dirba Paper Mills, Dirba, Distt. Sangrur, Sant Mix Board, Bikhi, Distt. Mansa, Shiv Shakti Mix Board, Bhawanigarh for re-processing to manufacture mill board/ card board, which are having valid Registration Certificate-cum-Pass Book from Punjab Pollution Control Board, valid authorization of the Board under the said Rules and 'consents to operate' under the Water Act, 1974 and Air Act, 1981.*
3. *The industry will not send its hazardous waste category 32.3 of Schedule-I to the industry which are not having valid Registration Certificate-cum-Pass Book from Punjab Pollution Control Board, valid authorization of the Board under the said Rules and 'consents to operate' under the Water Act, 1974 and Air Act, 1981.*
4. *The industry shall dispose off its Hazardous waste category no. 32.2 of Schedule-I to TSDF, Nimbuan and shall maintain the record of the same.*
5. *The industry shall handle the Hazardous Waste(s) in accordance with the provisions of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016 and guidelines issued by Central Pollution Control Board / Ministry of Environment & Forests and Climate Change, New Delhi.*
6. *The occupier generating hazardous waste/operator of a facility for collection and storage of hazardous waste shall maintain records of such operations in Form-3.*
7. *The occupier/operator of a facility shall send annual returns to the Board in form-4 on or before 30th day of the June following to the financial year to which that return relates.*
8. *The Authorized person shall report, about the accident, which occurs at the hazardous waste storage/treatment site immediately to the Board.*
9. *An occupier who is generating hazardous waste shall store his waste category wise on site in environmentally sound manner till its treatment.*
10. *An occupier /generator shall not store hazardous wastes in open ground. It must be stored in an isolated site away from plant operational area.*
11. *The storage tank/container of the hazardous wastes should be in good condition and made off(or lined with) an appropriate material which does not react with the waste contained in it and can withstand the physical and environment conditions during storage and handling.*
12. *The occupier generating hazardous waste shall mark each container holding hazardous waste with the marking "HAZARDOUS WASTE" both in English and Punjabi.*
13. *The storage area should be fenced properly and a sign Board indicating "DANGER" and 'HAZARDOUS WASTE' sign & nature of the waste shall be placed at storage site.*
14. *The occupier generating hazardous waste shall provide the required safety devices like safety mask, goggles, hand-gloves, gum boots etc to the workers for handling the hazardous waste. The occupier shall impart training to the personnel/workers for handling and storage of hazardous wastes.*
15. *There should be sufficient & efficient provisions to avoid under ground water contamination from waste storage of hazardous wastes.*
16. *The occupier shall be responsible for any damage of life/or property during storage of his waste and will obtain Public Liability Insurance, wherever applicable.*
17. *The occupier and operator of a facility also be liable to reinstate or restore damaged or destroyed elements of the environment at his cost, failing which the occupier or the operator of a facility, as the case may be, shall be liable to pay the entire cost of remediation or restoration and pay in advance an amount equal to the cost estimated by the State Pollution Control Board.*
18. *The industry shall display on line data outside the main factory gate on display Board of size (6ft.* 4ft.) on quantity and nature of hazardous chemicals being used in the plant, water & Air emissions and hazardous waste generated within factory premises.*
19. *Non compatible hazardous waste and material shall not be mixed in the same storage container.*

20. The authorization is subject to the conditions mentioned above and also to such conditions as specified in the Hazardous waste (Management & Handling) Rules as amended from time to time framed under the Environment (Protection) Act 1986.

21. In case the industry fails to comply with the above conditions of authorization as well as provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and/ or any other environmental law applicable to the industry and Rules, Circulars & Directions issued by the Board from time to time, the Board shall constrained to take action against the industry under the provisions of the Pollution Control Laws.



14/03/2022

(Om Parkash)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)



REGIONAL WATER TESTING LAB, SANGRUR

Prem Basti, D. C Office Road, Opposite to Punjab Gramin Bank, Sangrur
rwtlsangrur@gmail.com



TEST REPORT

Name & Address of Customer : Shreyans Industries Limited Ahmedgarh Dist. Malerkotla	Customer Reference No.	No : P&A/22-23/33 Dated : 31/10/2022
	Sample Submitted by	
	Date of Sample Receipt	01/11/2022
	Analysis Starting Date	02/11/2022
	Analysis completion Date	03/11/2022
Discipline : Chemical Testing		Group: Water
Test Report No.:	RWTL/SNG/2122/2223/00279	Date of Issue : 03/11/2022
Registration no.:	RWTL/SNG/2122/REG2223/01113	Condition of Sample : Unsealed
Source :	NA	Quantity/Type of Bottle: 500 ml / Amber Colored Glass Bottle
Scheme :	NA	Location/Depth : Tubewell Shreyans Industries Limited / NA
Village :	NA	Habitation : NA
Block:	Malerkotla-I	District : Sangrur
Latitude :	NA	Longitude: NA

Sample Type: **Water**

Sr. No	Parameter	Result	As per IS-10500:2012 (2nd Rev.)		Unit	Reference Method :
			Acceptable Limit	Permissible Limit		
1	pH	7.80	6.5-8.5	No Relaxation	--	IS 3025 (Part 11-1993) Electrometric Method
2	Colour	3	5	15	CU	IS 3025(Part 4-2021) Visual Comparison Method
3	Odour	Agreeable	Agreeable	Agreeable	--	IS 3025 (Part 5 – 2018) (Second Revision)
4	TDS	670	500	2000	mg/l	IS 3025 (Part 16-1984) Gravimetric Method
5	Turbidity	0.47	1	5	NTU	IS 3025 (Part 10-1984) Nephelometric Method
6	Alkalinity	360	200	600	mg/l	IS 3025 (Part 23-1986) Indicator Method
7	Hardness	232	200	600	mg/l	IS 3025 (Part 21- 2019) EDTA Method
8	Calcium	34	75	200	mg/l	IS 3025 (Part 40-1991) EDTA Titrimetric Method
9	Magnesium	36	30	100	mg/l	APHA (23rd Ed.2017) Method: 3500-Mg+2 B By Calculation Method
10	Chloride	74	250	1000	mg/l	IS 3025 (Part 32-1988) Argentometric Method

This Report is issued under the following terms & Condition :

1. This report is referring only to the tested sample and for applicable parameter.
2. The sample will be destroyed after retention time unless otherwise specified specially.
3. This report is not to be reproduce wholly or in part and can't be used as evidence in court of law.
4. Abbreviation used (TDS = Total Dissolved Solids, mg/l = milligram per liter, BDL = Below detection limit, APHA = American Public Health Association, IS = Indian Standard, NT = Not Tested, NA = Not Applicable NTU = Nephelometric Turbidity Unit, RA = Reaffirmed)
5. * Value not available or test not performed for this parameter.

Dr. Ramesh Jhorar
Quality Manager
Authorized Signatory
For, Regional Water Testing Lab,
Sangrur

----- End of the Test Report -----