Seshasayee
Paper and
Boards Limited

Regd Office & Works : Pallipalayam, Namakkal District,
Erode - 638 007, Tamilnadu, India, Ph : 91 - 4288 - 240221 to 240228
Fax: 91 - 4288 - 240229 email : edoff@spbltd.com Web : www.spbltd.com
CIN : L21012TZ1960PLC000364

Ref: Env/ W-1/ 286 **2022 10 31**

The Director(s)
Regional Office (South Eastern Zone)
Ministry of Environment, Forests & Climate Change (MOEFCC)
Government of India
The Handloom Export Promotion Council Building
34 (Old No.18) Cathedral Garden Road
Nungambakkam, Chennai 600 034

Dear Sir,

Sub: Compliance Report for the period April 2022 -Sept 2022

Ref: Environmental Clearance F.No J-11011/56/95-IA-II (I) dated 21.05.1996

Environmental Clearance F.No J-11011/194/2013-IA II (I) dated 22.01.2016

Environmental Clearance (Amend) F.No J-11011/194/2013-IA II (I) dated 18.11.2019

We submit the Compliance Report for the various conditions stipulated in the above Environmental Clearances dated 21 05 1996, 22 01 2016 and 18.11.2019 respectively issued by your esteemed Ministry, for the period April 2022 - September 2022 together with relevant enclosures.

Thanking you,

Yours faithfully
For Seshasayee Paper and Boards Limited

(GANESH BALAKRISHNA BHADTI)
Director (Operations)

Encl: As above

ISO 9001/14001 and OHSAS 18001 CERTIFIED

SESHASAYEE PAPER AND BOARDS LIMITED

PALLIPALAYAM, CAUVERY R.S. P.O
ERODE 638 007, NAMAKKAL DISTRICT
Unit : Erode

Compliance Report for the Period
April 2022 - Sept 2022

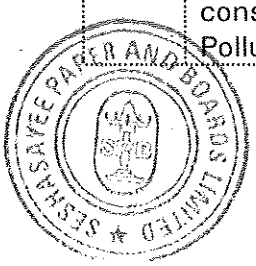
SESHASAYEE PAPER AND BOARDS LIMITED

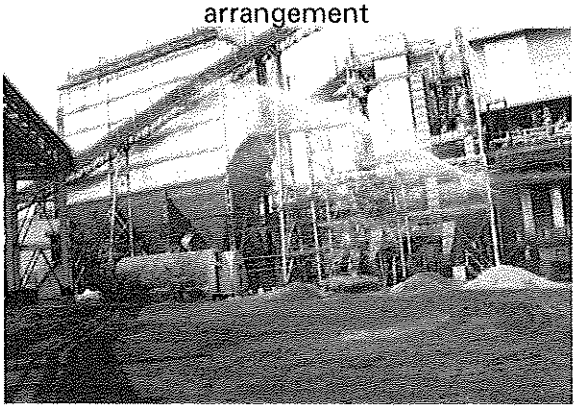
Environment Clearance F.No. J-11011/56/95 –IA- II (I) dated 21.05.1996

COMPLIANCE REPORT FOR THE CONSENT DATED 21.05.1996

COMPLIANCE REPORT FOR THE PERIOD APRIL 2022 - SEPTEMBER 2022

Sl.No	EC Condition	Compliance Status
1	The Project Authority must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	We strictly adhere to the stipulations made by the State Pollution Control Board and the State Government. Status: Complied
2	No expansion or modification of the plant should be carried out without prior approval of this Ministry	SPB mill abide with this condition.
3	Gaseous and Particulate Emissions from various processes should conform to the standards prescribed by the competent authority from time to time. At no time, the emission levels should go beyond the prescribed standards. In the event of failure of any Pollution Control System adopted by the units, the respective unit should be put out of operation immediately and should not be restarted until the pollution control measures are rectified to achieve the desired efficiency.	✓ Gaseous and Particulate Emissions are continuously monitored online round-the-clock basis and is under control. ✓ Industry has installed online stack monitoring system in all the stacks and stack emissions are well within the standards prescribed. The Advances Environmental Laboratory, TNPCB, Salem is conducting AAQ/Stack Survey twice in a year and their analysis reports confirm compliance of stipulated standards in the regard. The report is enclosed (Annexure -1) Status: Complied
4	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO2 and NOx are anticipated. The selection of the AAQ monitoring stations should be based on modelling exercise to represent short term ground level concentration, sensitive targets etc in consultation with the State Pollution Control Board Stack Emissions should also be regularly monitored by installing stack monitoring device in consultation with the State Pollution Control Board	✓ Ambient Air Quality Monitoring Stations are established in the periphery and being continuously monitored at four locations. The report is enclosed (Annexure -2) ✓ Stack Emissions are monitored online 24x7 and transmitted to SPCB/CPCB. ✓ Industry has installed online stack monitoring system in all the stacks and stack emissions are well within the standards prescribed. The Advances Environmental Laboratory, TNPCB, Salem is conducting AAQ/Stack Survey twice in a year and their analysis reports confirm compliance of stipulated standards in the regard. The report is enclosed (Annexure -1) ✓ Statistical analysis as below



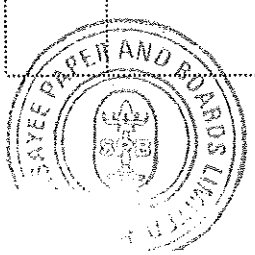
	Data on AAQ and Stack Emissions should be submitted regularly to the Ministry once in six months and the State Pollution Control Board once in three months along with the statistical analysis and interpretation	**Parameters** / **Kg/d** / **mg/Nm^3** SPM — 18.30 — 28.5 (Lime Kiln) SPM — 41.96 — 24 (Chemical Recovery Boiler) SPM — 114.95 — 30 (Captive Power Plant-CPP) H_2S — 0.056 — 0.0875 (Lime Kiln) Extract from the Analysis Report of Advanced Environmental Laboratory, Tamil Nadu Pollution Control Board, Salem. Status: Complied
5	Interlocking facilities should be provided in the ESP's installed in the process equipments and Captive Power Plant so that the plant automatically shuts down in case of ESP failure/emissions exceeding the limits if any	✓ Being a continuous process industry, uninterrupted power supply to pollution control equipment is maintained through captive power generation backed by the TNEB supply. Status: Complied
6	Fugitive emissions should be controlled, regularly monitored and data recorded	✓ Sprinkler systems are in place to mitigate the Fugitive emissions. ✓ We have installed water sprinklers and tanker mounted trailer with sprinkling arrangements to control the same.  Mobile Tanker & water sprinkler arrangement  Status: Complied

SESHASAYEE PAPER AND BOARDS LIMITED

Sl.No	EC Condition	Compliance Status
7	Liquid wastes should be reduced in both volume and concentrations by a combination of in plant control measures and better work practices. Liquid Effluents coming out of the plant and township should conform to the Standards as prescribed by the State Pollution Control Board/ Central Pollution Control Board under the Environment (Protection) Act, 1986	✓ Volume of liquid effluent is reduced by adapting recycling in various plants of the mill and the specific water consumption is reduced. ✓ The treated effluent is regularly monitored by the Tamil Nadu Pollution Control Board / Central Pollution Control Board which is monitored online and conforming to standards. Status: Complied
8	Recycling and reuse of the treated waste water should be maximized to the extent possible including its use for irrigation purposes. Adequate storm water drains should be provided for avoiding flooding during monsoon period	✓ Various in plant water recycling and conservation measures have been implemented and specific water consumption has been reduced. ✓ Wastewater from paper machines – about 7000Kl/d is recycled, treated in Clari-flocculator and reused with in the mill. ✓ The final treated effluent is used for irrigation after maximized recycling. ✓ Pre-treated wastewater recycled back to process report enclosed as annexure - 3 Status: Complied
9	Adequate number of influent and effluent quality (pH, BOD, COD, TSS) monitoring stations should be set up in consultation with Tamil Nadu Pollution Control Board. Monitored data along with the statistical analysis and interpretation in the form of a report should be submitted to this Ministry on a half yearly basis and to SPCB once in three months	Being followed Statistical details as below Parameters / Kg/d / ppm TSS 353.92 22.42 TDS 19126.32 1211.60 Chlorides 6491.67 411.23 Sulphates 5916.59 374.80 BOD 211.84 13.42 COD 2171.84 137.58 Extract from the Analysis Report of Advanced Environmental Laboratory, Tamil Nadu Pollution Control Board, Salem. Status: Complied
10	The project proponent should take measures to monitor the Cauvery river water quality in the upstream and downstream sides on a regular basis through an independent agency who should report results directly to the SPCB.	✓ Cauvery water upstream and downstream is monitored regularly. ✓ Copy of our River Water Analysis Report enclosed as annexure – 4. Status: Complied

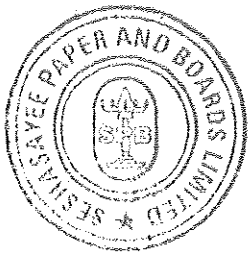
SESHASAYEE PAPER AND BOARDS LIMITED

Sl.No	EC Condition	Compliance Status
11	Chemical Recovery Plant should be set up for recovering the chemical from the Black Liquor to the maximum extent possible	✓ Installed a new Chemical Recovery Plant with 250 TPH Evaporation plant and 950 tonnes / day Chemical Recovery Boiler and maximum chemicals are recovered.
12	The effluent from the bleaching section should be segregated from other waste water streams and treated for decolourisation. The feasibility of using only Hydrogen Peroxide instead of Calcium Hypochlorite as a bleaching agent for the bleaching of Bagasse pulp should be considered and a report submitted to the Ministry for review. A limit of 150 cubic meters of effluent per MT of paper should be adhered to	✓ Installed ECF Bleaching System for Bagasse Pulping thereby eliminating the use of Calicum hypochlorite and by replacing the same with Hydrogen Peroxide. ✓ Our present treated wastewater discharged is around 35 m^3/ton of paper. Status: Complied
13	Organic Matter from Black Liquor and pith removed from the Bagasse should be used as a fuel in the Soda Recovery and Power Boiler	✓ Black Liquor from the Bagasse Pulp Mill is evaporated and used in the Chemical Recovery Boiler for White Liquor Production and Power Production. Pith is used as a fuel in Boiler. Status: Complied
14	The hazardous wastes should be handled as per the Hazardous Waste (Management and Handling) Rules, 1989 and (Hazardous Substance Import, Manufacture and Storage), Rules 1989 of the Environment Protection Act 1986	✓ SPB is possessing Hazardous Wastes Authorization No. 22HFC36355066 dated 07/07/2022 issued by TNPCB with a validity of five years from the date of issue and the Hazardous wastes are disposed as per authorization only. Status: Complied
15	Adequate measures for the control of noise should be taken so as to keep the noise levels below 85 dBA in the work environment. Persons working near the noisy machines in the different units, blowers, compressors etc should be provided with a well designed ear muffs/plugs. Besides, measures should be taken to reduce the noise at the sources itself by employing Engineering methods	✓ Noise control measures such as Silencers, Hoods etc have been installed in Power Plant and other noisy areas. Personal Protective Equipments such as ear muffs/plugs have been provided to all the employees. ✓ This is being monitored regularly by Advanced Environmental Laboratory, Salem is conducting overall noise levels survey twice in a year and their analysis report confirm compliance of stipulated standards in this regard. **Inside the Plant** — **85 dBA** Wood pulp mill – RDH — 83.7 Paper Machine Ground floor — 82.7 New Recovery Boiler Area — 84.3 CPP – Power Boiler ground floor — 80.1 Extracted from Analysis Report of Advanced Environmental Lab, TNPCB, Salem for the period April 2022 – September 2022 (TNPCB survey has been conducted on 08 07 2022 and 09 07 2022) Status: Complied



16	A community welfare scheme for improving the Socio Economic Environment should also be worked out and report submitted to this Ministry for review within a period of 6 months	✓ Supply of protected potable drinking water to all the villages and neighbouring community through network of pipelines 400 numbers of drinking water taps were installed in strategic places. ✓ Supply of treated wastewater after meeting inland surface water discharge standards for irrigation. ✓ Desilting of community check dams for collection of rain water during monsoon for the recharge of ground water. ✓ Education facility for the rural community in three schools run by the Company ✓ Donated land for the Goverment school Running of Community Health Centres for the benefit of the downtrodden. ✓ Regular sports activities like Cricket, Tennis, Volleyball, Kabaddi, Shuttle etc are carried out to improve the skills of the rural folk. ✓ Lot of awareness programmes were conducted for covid-19 and spraying Lizol in around the villages nearby. ✓ Contribution to state covid relief fund of 1.62 crores Status - Complied
17	An action plan for utilisation of fly ash and lime sludge from Hypo plant should be prepared and a report to be submitted to this Ministry for review within a period of six months	Fly ash is disposed for manufacturing bricks and Lime sludge is disposed to cement industries. Status: Complied
18	Soil samples from the land fill site, lignite handling area and area irrigated by the treated effluent should be regularly analysed for any signs of soil degradation and if required corrective action should be promptly taken	✓ Soil samples of areas irrigated by the treated effluent is regularly monitored by Tamil Nadu Agricultural University, Coimbatore. ✓ Test reports are enclosed as Annexure -5 Status: Complied
19	Ground water around the land fill site, lignite handling area and areas irrigated by treated effluent should be regularly monitored and report submitted to the SPCB once in three months and to the Ministry and its Regional Office at Bangalore every six months	✓ Ground water samples from the area irrigated with our treated wastewater is being regularly monitored by Tamil Nadu Agricultural University, Coimbatore and TNPCB. ✓ Test reports are enclosed as Annexure -6 Status: Complied

Sl.No	EC Condition	Compliance Status
	General Conditions	
1	The ministry or any other competent authority may stipulate any additional conditions, if required from Environmental angle after review of monitoring reports or any other report prepared by the Project Authority	Till date, no additional conditions have arisen. In future, if so, the same will be complied
2	The ministry may revoke Environmental Clearance if implementation of any of the conditions is not found satisfactory. The stipulated conditions will be monitored by this Ministry as also by its Regional Office located at Bangalore. Six monthly status reports on the compliance of above conditions should be sent to the ministry (Regional Office, Banaglore) .	Till date, no additional conditions have arisen. In future, if so, the same will be complied
3	The above conditions will be enforced interalia under the provisions, of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution), Act 1981; the Environment Protection Act 1986; and the Public Liability Insurance Act 1991 with their amendments and Rules.	Till date, no additional conditions have arisen. In future, if so, the same will be complied



TEST REPORT

Report No.1/ 11 /AEL - SLM/AAQS/2022 - 23 Dt. 12.07.2022

1. Name of the Industry : M/s. Seshasayee Paper & Boards Ltd.,
2. Address of the Industry : Alampalayam Village, Pallipalayam T. Code, Namakkal District – 638 007.

3. Date of survey : 08.07.2022 & 09.07.2022
4. Duration of survey : 8 Hours
5. Category : Red /Large
6. Matrix : Ambient Air
7. Date of Analysis : 11.07.2022

Meteorological Conditions

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	26	30		67	71
Weather Condition	Clear sky		Rainfall (mm)	Nil	
Predominant Wind Direction	W → E		Mean Wind Speed (Km/hr)	-	

Ambient Air Quality Survey Results

Sl. No.	Location	Direction *	Distance * (m)	Height from GL (m)	Pollutants Concentration (µg/m³)				
					PM_{10}	SO_2	NO_2	Cl_2*	H_2S*
01.	House top of Thiru. Sundaram 428, Rajaji Nagar, Cauvery R.S	N	500	8.0	66	15	18	<1	<0.02
02.	House top of Thiru. E.Ramasamy D.No.247, Kumarappan Nagar,Karathangadu	NE	1000	8.0	68	17	21	<1	<0.02
03.	House top of Mr. Manickam, D.No. 58/2/55, Ayakattur.	E	1000	8.0	69	18	22	<1	<0.02
04.	House top of Thiru.Palaniyappan D.No. 2/147,Odapalli.	SE	600	6.0	72	21	24	<1	<0.02
05.	On top of Guest House , SPB premises	WSW	300	6.0	55	11	15	<1	<0.02
06.	On top of Scaffolding, Near water Intake well	W	350	5.0	60	13	17	<1	<0.02

Note:
* With respect to major emission sources
* Indicates does not Covered in NABL Scope, Indicates minimum detectable limit.
All the values are restricted to the sampling period of 08.00 Hrs.

Test method:
Respirable Particulate Matter (PM_{10}) : IS 5182: (Part 23) – 2006
Sulphur Dioxide (as SO_2) : IS 5182: (Part 2) – 2001
Oxides of Nitrogen (as NO_x) : IS 5182: (Part 6) – 2006
Sampling Procedure : AEL/SLM/SOP/G-08

Authorized Signatory

26/7/22
C.S.O

ASSISTANT DIRECTOR (LAB)
AEL,TNPCB,SALEM.

-End of Test Report -

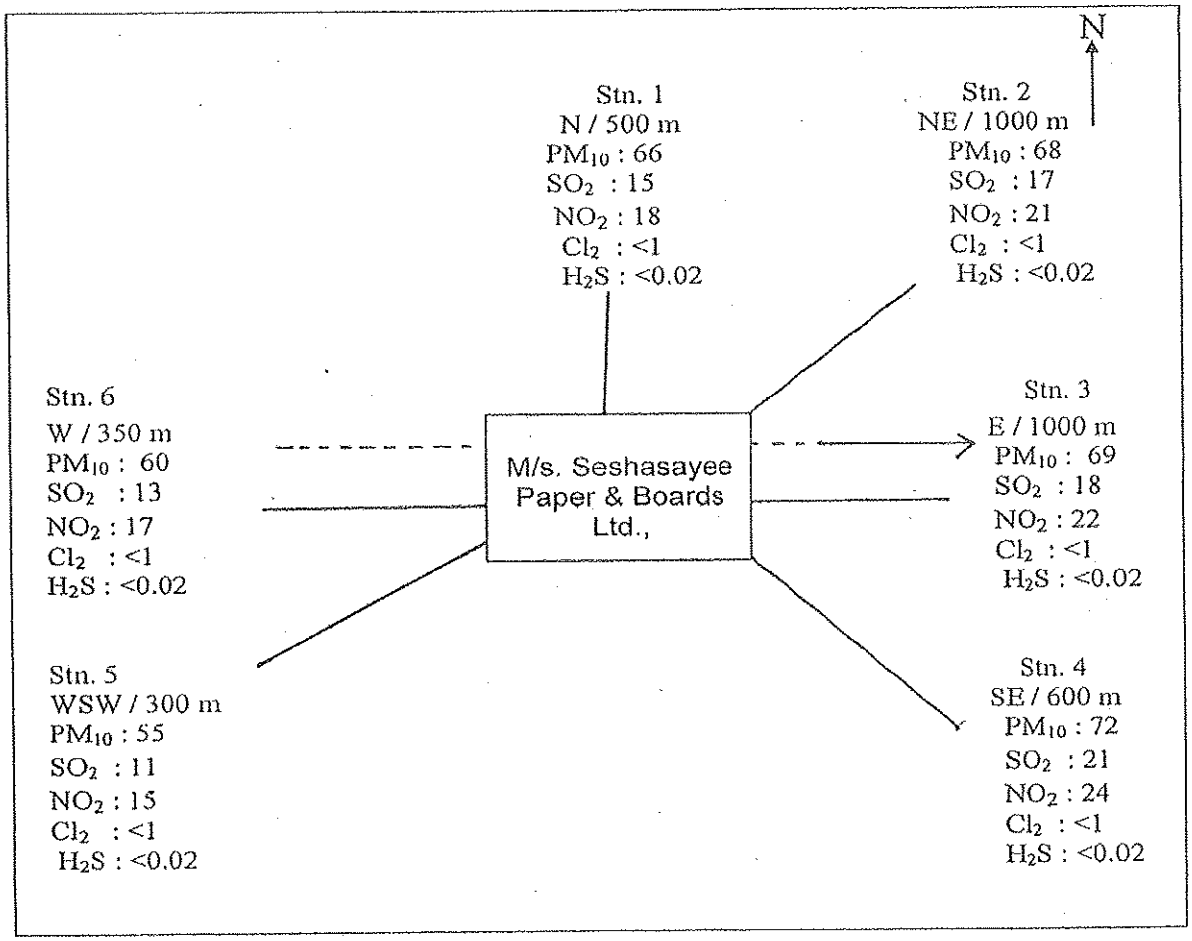
TAMIL NADU POLLUTION CONTROL BOARD

Advanced Environmental Laboratory, Salem 636 004

AMBIENT AIR QUALITY SURVEY
Schematic Diagram Showing Location of Sampling

Report No. 11 /AEL - SLM/AAQS/2022 – 23 Dt: 12.07.2022

1.Name and Address of the Industry	:	M/s. Seshasayee Paper & Boards Ltd., Alampalayam Village, Pallipalayam T. Code, Namakkal District.
2. Date of survey	:	08.07.2022 & 09.07.2022



Note:
All the values are expressed in µg /m^3 and restricted to the sampling period of 08.00 Hrs.

METEOROLOGICAL CONDITION:-

Predominant Wind Direction : W → E
Weather Condition : Clear sky
Rainfall : NIL

C.S.O

ASSISTANT DIRECTOR (LAB)
AEL,TNPCB,SALEM.

TEST REPORT

Report No.2/ 11 /AEL – SLM/SM/2022 - 23 Dt. 12.07.2022

1. Name of the Industry : M/s.Seshasayee Paper & Boards Ltd., Alampalayam Village
2. Address of the Industry : Pallipalayam, T.Code Taluk Namakkal District – 638 007.
3. Date of survey : 08.07.2022 & 09.07.2022
4. Matrix : Stack Emission
5. Date of Analysis : 11.07.2022

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Stack Temp. °C	Velocity in (m/sec)	Discharge rate in (Nm^3/Hr)	Pollutants Concentration (mg/Nm^3)				
					PM	SO_2*	NOx*	Cl_2*	H_2S*
1.	Coal Fired Boiler	126	9.8	1,40,603	24	122	27	-	-
2.	New Lime Kiln	135	11.6	53,923	26	14.9	11	<0.005	0.027
3.	New Chemical Recovery Boiler	142	13.9	94,987	22	19.1	15	<0.005	0.126

Note:
* Indicates does not Covered in NABL Scope.

Test Method:
Particulate Matter - IS 11255 (Part 1) – 1985, (RA 2003)

Authorized Signatory

26/7/22
C.S.O

ASSISTANT DIRECTOR (LAB)
AEL,TNPCB,SALEM.

-End of Test Report-

TAMILNADU POLLUTION CONTROL BOARD
Advanced Environmental Laboratory, Salem 636 004

STACK DETAILS

Report No. 11 /AEL - SLM/SM/2022 - 23 Dt: 12.07.2022

1.Name and Address of the Industry : M/s. Seshasayee Paper & Boards Ltd.,
Alampalayam Village, Pallipalayam
T. Code Taluk, Namakkal District - 638 007.

2. Date of Survey : 08.07.2022 & 09.07.2022

Sl. No.	Particulars	1	2	3
1	Stack attached to	CPP-Coal Fired Boiler	New Lime Kiln	New Chemical Recovery Boiler
2.	Details of process Stack	Coal is fired at the furnace – Steam is generated for turbine operation-Mechanical energy is converted to Electrical power energy.	Reburning of Lime mud and burning of lime stone Oxygenating Lime and Lime mud and recovering $CaCO_3$. $CaCO_3$ is used in Chemical recovery process for cooling of pulp.	Generation of steam by burning black liquor a waste product from pulp production. Steam is used to rotate the turbine and electricity is generated.
3	Height from G Level in (m)	85 mts	60 mts	75 mts
4	Diameter in (m) Rectangular duct	2.31 x 2.31 mts	1.5 mts	2.987 x 0.885 mts
5	Port hole height from Ground Level or bends or ducts in (m)	41.5 mts	28 mts	12 mts
6	Fuel Used (with L% Sulphur Content)	Imported Coal	F.O	F.O. and BLS
7	Fuel Consumption rate per day(mention units)	Imported Coal 332 Tons	Furnace oil = 25 KL	F.O. = --- BLS = 979 Tons
8	Boiler type and capacity	-	-	-
9	APC measures provided	ESP provided	ESP provided	ESP provided
10	APC functional status		APC Measures were in operation	
11	Ambient temp in °K	302°K	302°K	303°K
12	Temp of flue gas in °K	399°K	408°K	415°K
13	Velocity of flue gas in m/sec	9.8 m/sec	11.6 m/sec	13.9 m/sec
14	Volume of flue gas sampled in m^3	1.008 m^3	1.008 m^3	1.008 m^3
15	Gaseous Discharge rate per Hr.in Nm^3/Hr	1,40,603 Nm^3/Hr	53,923 Nm^3/Hr	94,987 Nm^3/Hr

26/7/22
C.S.O

26/7/22
ASSISTANT DIRECTOR (LAB)
AEL,TNPCB,SALEM.

TEST REPORT

Report No.3/ 11 /AEL - SLM/NLS/2022 - 23 Dt. 12.07.2022

1.	Name of the Industry	:	M/s. Seshasayee Paper & Boards Ltd.,
2.	Address of the Industry	:	Alampalayam Village, Pallipalayam T. Code, Taluk, Namakkal District – 638 007.
3.	Date of survey	:	09.07.2022

Category	Red / Large
Type of Survey	Ambient / Source
Time of Survey	Day
Meteorological Condition	Calm

Logging Parameters

Instrument Used	LARSON DAVIS SOUND LEVEL ANALYSER, Sl.No.824 A/2008
Ambient Temperature	28 °C
Ambient Relative Humidity	63 %
Measuring Range	50 -110 dB(A)
Weighing	"A"
Peak Weighing	"C"
Time Weighing	--
Sound Incidence	Random
Time in Hrs	11.20 – 12.30 hrs

Report of Noise Level Monitoring

Sl. No.	Location	Distance (m)	Direction	Sound Level- dB(A)		
				Leq	L_{Max}	L_{Min}
I.	**BOUNDARY LINE:**					
01.	At the Main Gate (Admin.)	250	N	54.1	67.8	46.3
02.	Time Office Gate	250	NNE	54.2	79.1	48.2
03.	Diesel Bunk area	250	NE	50.3	68.4	47.2
04.	Odapalli Village area	300	SE	54.9	69.9	51.3
05.	SPB Guest House premises	600	WSW	53.8	62.1	49.7
06.	Intake well premises	250	W	54.6	62.8	46.9
07.	Bagasse Zone area	250	NW	51.7	59.2	46.1
08.	Vinayagar Temple premises	250	NNW	54.2	59.3	42.8
II.	**INSIDE THE PLANT:**					
1	Wood pulp mill – RDH	-	-	83.7	87.8	79.4
2	Paper machine Ground floor	-	-	82.7	84.7	81.2
3	New Recovery Boiler Area	-	-	84.3	86.6	83.0
4	CPP-Power Boiler Ground Floor (New)	-	-	80.1	82.5	78.0

Note: *Leq Value is the average energy for the measured period.
Test Method: Sound Level (Leq) IS: 9989 - 1981 (RA 2001)
Sampling Procedure - AEL/SLM/SOP/G-08

26/7/22
C.S.O

ASSISTANT DIRECTOR (LAB)
AEL,TNPCB,SALEM.

-End of Test Report -

TAMILNADU POLLUTION CONTROL BOARD
Advanced Environmental Laboratory, Salem 636 004

GENERAL PARTICULARS

Report No. 11 /AEL - SLM/AAQS/SM/NLS/2022– 23 Dt: 12.07.2022

1. Name and Address of the Industry: M/s. Seshasayee Paper & Board Ltd.,
Alampalayam Village
Pallipalayam, T. Code Taluk
Namakkal District – 638 007.

2. Date of Survey : 08.07.2022 & 09.07.2022

Sl. No.	Head of Particulars	Particulars	
1	Process Description	Paper production by using Bagasse , wood wetlap pulp and waste paper as raw materials.	
2	Emission Source	3 Nos. of Stacks	
3	Fugitive Emission Sources	Frequent Vehicle movements were observed	
4.	Raw Material Consumptions	**On 08.07.2022**	**09.07.2022**
		1. Baggasse : 33.7 Tons 2. Wood : 301.0 Tons 3. Wet lab pulp : 0 4. Waste Paper : 13 Tons 5. Imported Pulp : 0	29.8 Tons 260 Tons 0 15 Tons 0
5	Production Capacity as Per Air Consent Order No. & Date	Various grades of paper = 165000 T/A/452 P/Day Consent Order No. 2108236681157 Date : 14.05.2021 Valid up to 31.03.2022	
6	Production on the day of Survey \	Paper production on **08.07.2022** 478.3 Tons	**09.07.2022** 410.7 Tons
7	Percent production with Respect to Air Consent Order	On 08.07.2022 = 105 % On 09.07.2022 = 90 %	
8	Details of APC	ESP's and Chimney provided	
9	Functional status of APC	All the APC measures were in operation	
10	Compliance with Consent Conditions	Complied	
11	Field Observations	Observed regular activities in routine procedures	

26/7/22

C.S.O

26/7/22

ASSISTANT DIRECTOR (LAB)
AEL,TNPCB,SALEM.

TAMIL NADU POLLUTION CONTROL BOARD
Advanced Environmental Laboratory, Salem 636 004

INFERENCE REPORT ON AAQS/SM

Report No. 11/AEL – SLM/AAQS/SM/NLS/2022 – 23 Dt: 12.07.2022

1. Name and address of the Industry : M/s. Seshasayee Paper & Board Ltd.,
   Alampalayam Village
   Pallipalayam, T. Code Taluk
   Namakkal District – 638 007.

2. Pollution category : Red/Large
3. Land use classification : Residential/Rural

4. Date of AAQ survey : 08.07.2022 & 09.07.2022

5.Meteorological Conditions:

(i)	Predominant Wind Direction	:	W → E	
(ii)	Weather condition	:	Clear sky	
(iii)	Rainfall	:	Nil	
(iv)	Temperature	:	min : 26	max : 30
(v)	Relative Humidity (%)	:	min : 67	max : 71

STATUS OF POLLUTANTS LEVEL

I. AMBIENT AIR QUALITY:-

1. Total No.of AAQ stations monitored : 6 No's
2. No.of AAQ stations in which Pollutants Level exceeded the Boards Standard : NIL

Maximum and minimum value of Pollutants Level observed:

Sl. No.	Pollutant	Values in microgram/m^3		Board's Standard (as per consent order) ($\mu g/m^3$)
		Minimum	Maximum	
1.	Respirable Suspended Particulate Matter: PM_{10}	55	72	100
2.	Gaseous Pollutants:- (i) SO_2	11	21	80
	(ii) NO_2	15	24	80
	(iii) Cl_2	<1	<1	-
	(iv) H_2S	<0.02	<0.02	-

Note: *Indicates minimum detectable limit.

II STACK MONITORING:-

(i) Total No. of stacks Monitored : 3 No's
(ii) No.of stacks in which pollutant level Exceeded the Board's standard : Nil

26/7/22
C.S.O

26/7/22
ASSISTANT DIRECTOR (LAB)
AEL,TNPCB,SALEM.

Annexure - 2

Consolidated AAQ Report - January 2022 to September 2022						
Month	S.NO	Location	Direction	PM 10 (ug/m3) (Norm 100)	SO2 (ug/m3) (Norm 80)	NOx (ug/m3) (Norm 80)
Jan-22	1	CAUVERY (RS)	NORTH	54	52	49
	2	SPB ODAPALLI QUARTERS	S / SW	52	48	50
	3	AYYAKATTUR	EAST	64	55	49
	4	OFFICERS HOSTEL	W / SW	56	52	45
Feb-22	1	CAUVERY (RS)	NORTH	62	50	48
	2	SPB ODAPALLI QUARTERS	S / SW	56	45	46
	3	AYYAKATTUR	EAST	72	52	47
	4	OFFICERS HOSTEL	W / SW	55	54	42
Mar-22	1	CAUVERY (RS)	NORTH	65	49	46
	2	SPB ODAPALLI QUARTERS	S / SW	58	58	50
	3	AYYAKATTUR	EAST	77	53	48
	4	OFFICERS HOSTEL	W / SW	60	51	48
Apr-22	1	CAUVERY (RS)	NORTH	62	46	44
	2	SPB ODAPALLI QUARTERS	S / SW	54	54	52
	3	AYYAKATTUR	EAST	72	50	48
	4	OFFICERS HOSTEL	W / SW	58	48	46
May-22	1	CAUVERY (RS)	NORTH	62	50	48
	2	SPB ODAPALLI QUARTERS	S / SW	56	54	50
	3	AYYAKATTUR	EAST	68	52	46
	4	OFFICERS HOSTEL	W / SW	57	45	42
Jun-22	1	CAUVERY (RS)	NORTH	49	49	46
	2	SPB ODAPALLI QUARTERS	S / SW	54	51	48
	3	AYYAKATTUR	EAST	52	57	51
	4	OFFICERS HOSTEL	W / SW	52	48	46
Jul-22	1	CAUVERY (RS)	NORTH	52	50	47
	2	SPB ODAPALLI QUARTERS	S / SW	50	46	44
	3	AYYAKATTUR	EAST	57	51	46
	4	OFFICERS HOSTEL	W / SW	44	46	43
Aug-22	1	CAUVERY (RS)	NORTH	54	48	49
	2	SPB ODAPALLI QUARTERS	S / SW	49	44	42
	3	AYYAKATTUR	EAST	53	52	48
	4	OFFICERS HOSTEL	W / SW	47	43	45
Sep-22	1	CAUVERY (RS)	NORTH	56	45	47
	2	SPB ODAPALLI QUARTERS	SOUTH / SW	52	48	45
	3	AYYAKATTUR	EAST	54	50	46
	4	OFFICERS HOSTEL	W / SW	50	45	42

SESHASAYEE PAPER AND BOARDS LIMITED

Annexure-3

Effluent recycled back to process

DATE	PAPER MACHINE EFFLUENT		SRP		UF & RO Reject (M3/D)	Total Recyled water (M3)	Effluent Discharged (M3/D)	Total effluent generated	% of water Recyled
	Non Coloured (M3/D)	Coloured (M3/D)	Primary condensate	Secondary condensate					
Apr-22									
TOTAL	71190	133206	19663	84377	32396	340832	555358	896190	
AVG	2373	4440	678	2910	1080	11361	18512	29873	37.99
MIN	1490	2367	246	1363	503	8217	13820	22037	33.30
MAX	3104	5714	802	4489	1447	14691	21576	33772	44.97
May-22									
TOTAL	70425	118720	21747	88470	38383	337745	552992	890737	
AVG	2272	3830	702	2854	1238	10895	17838	28733	37.91
MIN	666	3454	267	1028	1039	8115	16040	26091	30.67
MAX	3390	4104	810	3211	1518	11941	19656	31458	40.88
Jun-22									
TOTAL	80615	100430	21105	89879	33731	325760	537868	863628	
AVG	2687	3348	704	2996	1124	10859	17929	28788	37.66
MIN	1399	2300	392	1761	995	8552	16650	25402	30.37
MAX	3220	4805	783	3315	1338	12783	19823	31453	41.87
Jul-22									
TOTAL	91265	112410	20034	86062	35776	345547	523135	868682	
AVG	2944	3626	646	2776	1154	11147	16875	28022	39.67
MIN	2145	2664	307	1535	973	6528	12938	19466	30.54
MAX	3493	4660	770	3220	1340	12821	18883	30548	44.42
Aug-22									
TOTAL	65011	138065	22972	93881	34877	354806	563208	918014	
AVG	2097	4454	741	3028	1125	11445	18168	29613	38.63
MIN	1232	720	625	2502	982	6686	15816	25938	25.78
MAX	3230	6461	792	3360	1251	12877	21828	33374	43.07
Sep-22									
TOTAL	69613	143748	21731	92865	34104	362061	550420	912481	
AVG	2320	4792	724	3096	1137	12069	18347	30416	39.62
MIN	1550	3340	421	1732	980	9163	16748	27374	32.61
MAX	3180	6665	843	3657	1278	14330	20220	32645	44.61

SESHASAYEE PAPER AND BOARDS LIMITED

Annexure - 4

ABSTRACT FROM THE ANALYSIS REPORT OF IN - HOUSE IN RESPECT OF RIVER WATER - UPSTREAM AND DOWN STREAM

River	Particulares	Unit	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
UP STREAM	PH		8.10	8.13	8.08	8.13	8.09	7.95	8.08	8.06	8.10
	Total Hardness	ppm	154	164	163	151	162	155	146	100	118
	P Alkalinity	ppm	0	0	0	0	0	0	0	0	0
	M Alkalinity	ppm	156	167	169	171	168	161	148	102	112
	Chlorides as "Cl"	ppm	47	69	67	66	62	44	42	26	36
	Silica	ppm	17.3	17.3	18.5	18.2	18.4	17.3	16.6	12.9	12.1
	D.O	ppm	6.70	6.70	6.20	7.20	7.30	7.40	7.3	6.7	7.4
DOWN STREAM	PH		8.12	8.16	8.11	8.16	8.13	8.00	8.11	8.12	8.16
	Total Hardness	ppm	155	165	165	153	163	157	148	102	120
	P Alkalinity	ppm	0	0	0	0	0	0	0	0	0
	M Alkalinity	ppm	157	169	171	173	169	163	150	104	113
	Chlorides as "Cl"	ppm	48	70	68	67	63	46	43	27	37
	Silica	ppm	17.5	17.5	18.80	18.4	18.6	17.5	16.7	13.0	12.3
	D.O	ppm	6.90	6.80	6.90	7.30	7.40	7.50	7.4	7.2	7.5

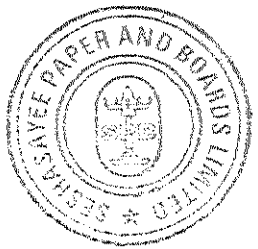


Table 22. Characteristics of soil collected from long-term effluent irrigated sites (January, 2021)

S.No	Parameters	20 years	30 years	40 years
1	pH	7.26	7.58	7.71
2	EC (dS m^{-1})	0.44	0.58	1.18
3	Organic carbon (%)	0.41	0.46	0.93
4	Available nitrogen (kg/ha)	212	331	243
5	Available phosphorus (kg/ha)	14.9	19.7	22.47
6	Available potassium(kg/ha)	196.2	324.7	236.4
7	Exchangeable Ca (Cmol(p$^+$) kg^{-1})	6.2	12.2	8.4
8	Exchangeable Mg (Cmol(p$^+$) kg^{-1})	3.4	4.6	4.3
9	Exchangeable Na (Cmol(p$^+$) kg^{-1})	1.61	3.98	5.89
10	Exchangeable K (Cmol(p$^+$) kg^{-1})	0.67	0.78	0.83
11	Bacteria ($\times 10^7$ CFU g^{-1} of soil)	20	18	22
12	Fungi ($\times 10^4$ CFU g^{-1} of soil)	07	08	09
13	Actinomycetes ($\times 10^5$ CFU g^{-1} of soil)	03	04	06

SAYEE PAPER AND BOARDS LIMITED

Annexure - 6

ABSTRACT FROM THE ANALYSIS REPORT OF ADVANCED ENVIRONMENTAL LABORATORY, (TNPCB) SALEM IN RESPECT OF GROUND WATER SAMPLE -Dt 24th March 2022

Parameters	Unit	Sivakumar Borewell Kattur	Subramnai Borewell Appanaikenpalayam	Venilla Borewell Pappampalayam	Jagathish Openwell Mukkuparai	SPB Borewell New Guest House
Conductivity at 25 deg C	µmhos/cm	1066	1226	1515	1072	423
pH at 25 deg C	Number	6.49	6.19	6.26	6.48	6.29
Total Dissolved Solids	mg/l	646	788	972	688	280
Chlorides as Cl	mg/l	160	205	215	130	36
Sulphates as SO4	mg/l	128	149	352	9	43
BOD (at 27 deg C for 3 days)	mg/l	<2	< 2	< 2	6.5	< 2
COD	mg/l	16.0	16.0	16.0	56.0	16.0
P.Alkalinity as CaCO3	mg/l	60	50	50	40	20
Fluoride as F	mg/l	0.222	0.389	0.544	0.522	0.517
Alkalinity as CaCO3	mg/l	230	230	270	410	148
Total Hardness as CaCO3	mg/l	300	310	390	380	128
Calcium as Ca	mg/l	64	100	92	112	40
Magnesium as Mg	mg/l	34	14.6	39	24	6.8
Sodium as Na	mg/l	98	103	147	86	42
Potassium as K	mg/l	24	26	19	19	7
Iron Total as Fe	mg/l	< 0.05	<0.05	< 0.05	< 0.05	< 0.05
Total Kjeldahl Nitrogen	mg/l	2.24	2.24	2.24	2.24	2.24
% Sodium	%	39	40	55	32	40
Oil & Grease	mg/l	< 4	<4	< 4	< 4	<4
Phosphate as PO4	mg/l	0.438	0.12	0.167	0.175	0.123

DESIKAN PAPER AND BOARDS LIMITED

Annexure - 6

ABSTRACT FROM THE ANALYSIS REPORT OF ADVANCED ENVIRONMENTAL LABORATORY, (TNPCB) SALEM IN RESPECT OF GROUND WATER SAMPLE -Jan 2022

Parameters	Unit	Sivakumar Borewell Kattur	Subramnai Borewell Appanaikenpalayam	Venilla Borewell Pappampalayam	Jagathish Openwell Mukkuparai	SPB Borewell New Guest House
Conductivity at 25 deg C	µmhos/cm	987	916	923	1170	1878
pH at 25 deg C	Number	6.48	6.57	6.44	6.26	6.35
Total Dissolved Solids	mg/l	716	620	644	824	1244
Chlorides as Cl	mg/l	114	104	116	130	200
Sulphates as SO4	mg/l	205	208	175	239	312
BOD (at 27 deg C for 3 days)	mg/l	2.0	< 2	< 2	< 2	< 2
COD	mg/l	16	16	16	16	16
P.Alkalinity as CaCO3	mg/l	< 1	< 1	< 1	< 1	< 1
Fluoride as F	mg/l	0.040	0.051	0.063	0.051	0.092
Alkalinity as CaCO3	mg/l	180	160	170	240	270
Total Hardness as CaCO3	mg/l	250	200	210	260	370
Calcium as Ca	mg/l	60	56	44	68	76
Magnesium as Mg	mg/l	24	14	24	21	43
Sodium as Na	mg/l	120	120	121	174	251
Potassium as K	mg/l	6	4	4	5	20
Iron Total as Fe	mg/l	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Kjeldahl Nitrogen	mg/l	< 2	< 2	< 2	< 2	< 2
% Sodium	%	51	56	55	59	58
Oil & Grease	mg/l	< 4	< 4	< 4	< 4	0
Phosphate as PO4	mg/l	0.055	0.064	0.042	0.037	0.018

SESHASAYEE PAPER AND BOARDS LIMITED

SESHASAYEE PAPER AND BOARDS LIMITED

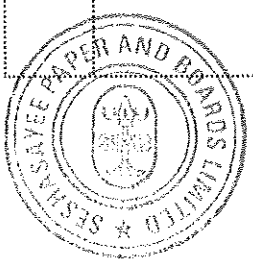
Environment Clearance F.No. J-11011/194/2013-IA II (I) dated 22 01 2016

COMPLIANCE REPORT FOR THE PERIOD APRIL 2022 - SEPTEMBER 2022

A	Specific Condition	
Sl.No	**EC Condition**	**Compliance Status**
1	The project proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent is discharged, as provided by CPCB and submit report to Ministry and its Regional Office.	✓ All the boiler stacks (fitted with individual ESP's) & final effluent ETP connected online (24x7) with Care Air Centre of TNPCB, Chennai & CPCB. Status-Complied.
2	The project authority should install multi cyclones, wet scrubbers with the boilers to achieve the particulate emission below 50 mg/Nm^3, The emissions from chemical recovery section should be controlled through primary and secondary venturi scrubbers.	✓ Industry has already installed ESP's in all stacks. ✓ Company has installed online stack monitoring system in all the stacks and stack emissions are well within the standards prescribed. ✓ The Advances Environmental Laboratory, TNPCB, Salem is conducting AAQ/Stack Survey twice in a year and their analysis reports confirm compliance of stipulated standards in the regard. Status-Complied.
3	In case of treatment process disturbances / failure of pollution control equipment adopted by the unit, the respective unit should be shut down and should not be restarted until the control measures are rectified to achieve the desired efficiency.	✓ Being a continuous process industry, uninterrupted power supply to pollution control equipments are maintained through captive power generation backed by the TNEB supply. Status-Complied.

SESHASAYEE PAPER AND BOARDS LIMITED

Sl.No	EC Condition	Compliance Status
4	The industry should ensure the compliance of the standards for discharge of the treated effluent from the unit as stipulated under the EPA rules or SPCB. Adequate steps including use of modern RO/UF based technologies should be used to increase recycling and reduce water consumption.	✓ Various in plant water conservation measures were undertaken at source and the process water consumption is reduced substantially. ✓ The effluent after final treatment meets the statutory requirements prescribed by the SPCB (Inland surface water discharge standards). This is monitored by In house / SPCB/CPCB (Online). ✓ Pre-treated wastewater is recycled back to process around 40% (Report enclosed as Annexure – 1).
5	Regular monitoring of ground water quality should be carried out in and around the project site by establishing a network of existing wells and installing new piezometers during the operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] should be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment, Forest and Climate Change and its Regional Office, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater quality is affected due to the project activity, necessary corrective measures should be carried out.	✓ Monitoring on ground water is taken up by TNAU/TNPCB and in-house. ✓ Covering four seasons on the year as stipulated. Report enclosed as annexure – 2 Status - Complied.
6	The company should submit the comprehensive water management plan along with monitoring plan for the ground water quality and the level, within three months from date of issue of this letter.	✓ Industry has an extensive water management plan along with the monitoring plan for the ground water quality. ✓ The ground water quality is checked once in a quarter periodically. ✓ The reports are enclosed Annexure – 2 Status-Complied.



Sl.No	EC Condition	Compliance Status
7	The project authority should dispose of hazardous waste as per the provision of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.	✓ SPB is possessing Hazardous Wastes Authorization No. 22HFC36355066 dated 07/07/2022 issued by TNPCB with a validity of five years from the date of issue and the Hazardous wastes are disposed as per authorization only. Status: Complied
8	The company should develop green belt in 33% of the total land as per the CPCB guidelines to mitigate the effect of fugitive emissions.	Adequate Green Belt is developed (Photos enclosed). Status: Complied.
9	Pre-placement medical examination and periodical medical examination of the workers engaged in the project should be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	The project is already completed. ✓ Company is carrying out health surveillance programme and annual medical check-up for their employees. ✓ Industry has established full-fledged OHC with full time Medical Officer and round the clock nursing staff. ✓ Records are maintained as per the Factories Act. Status - Complied.
10	The company should make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Adequate Fire Protection System in the place to mitigate the fire hazards Status-Complied.
11	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the pulp and paper sector should be strictly implemented.	✓ All the CREP requirements are implemented - Complied and the report is enclosed. Annexure - 3
12	All the commitments made to the public during the Public Hearing / Public Consultation meeting should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office.	This is being followed

SEKHSAYEE PAPER AND BOARDS LIMITED

Sl.No	EC Condition	Compliance Status
13	Provision should be made for the housing of construction labour with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied and the project has been completed.
14	At least 5% of the total cost of the project shall be earmarked towards Enterprise Social Commitment (ESC) based on locals' needs and the activity-wise details and village-wise details along with time-schedule for implementation shall be prepared in consultation with village panchayats and district administration and submitted to the Ministry's Regional Office. Implementation of such programme shall be ensured accordingly in a time-bound manner.	Being Complied with. The details of funds spent for Enterprise Social Commitment (ESC) for the last 4 years. FY 2018 -19 - ₹ 2.58 Crores FY 2019 - 20 - ₹ 4.24 Crores FY 2020 - 21 - ₹ 4.77 Crores FY 2021 - 22 - ₹ 4.21 Crores The CSR policy has been posted on the website of the Company - www.spbltd.com Status-Complied
B	**General Conditions:**	
1	The project authorities must strictly adhere to the stipulations made by the Tamilnadu Pollution Control Board and the State Government.	The stipulations made by TNPCB is adhered. Status-Complied
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).	SPB mill abide with this condition. Production Details: Year / Tonnes /Annum 2017-18 — 1 21 593 2018-19 — 1 32 379 2019-20 — 1 25 313 2020-21 — 1 12 489 2021-22 — 1 41 706 2022-23 (Apr – Sep) — 82 612

SESHASAYEE PAPER AND BOARDS LIMITED

<table>
<tr><th>Sl.No</th><th>EC Condition</th><th>Compliance Status</th></tr>
<tr><td>3</td><td>At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM_{10}, $PM_{2.5}$, SO_2 and NO_x are anticipated in consultation with the SPCB.
Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Chennai and the SPCB / CPCB once in six months.</td><td>✓ Ambient Air Quality is being monitored in four directions of the company premises. The reports are submitted once in six months.
Status – Complied
✓ This is being monitored regularly by Advanced Environmental Laboratory, Salem is conducting stack emission and AAQ survey twice in a year and their analysis report confirm compliance of stipulated standards in this regard.
(TNPCB survey has been conducted on 08 07 2022 and 09 07 2022)
Status- Complied</td></tr>
<tr><td>4</td><td>Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.</td><td>The Wastewater is treated to the Inland Surface Water Discharge Standards after extensive recycling within the plant and further used for irrigation.
Status- Complied</td></tr>
<tr><td>5</td><td>The overall noise-levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).</td><td>✓ This is being monitored regularly by Advanced Environmental Laboratory, Salem is conducting overall noise levels survey twice in a year and their analysis report confirm compliance of stipulated standards in this regard
Status - Complied
<table><tr><th>Location</th><th>Sound Level – dB(A)</th></tr><tr><td>Boundary Line</td><td>75dBA (daytime)</td></tr><tr><td>At the main gate (Admin)</td><td>54.1</td></tr><tr><td>Time office Gate</td><td>54.2</td></tr><tr><td>Diesel Bunk area</td><td>50.3</td></tr><tr><td>Odapalli Village area</td><td>54.9</td></tr><tr><td>SPB Gust House premises</td><td>53.8</td></tr><tr><td>Intake well premises</td><td>54.6</td></tr><tr><td>Bagasse Zone area</td><td>51.7</td></tr><tr><td>Vinayagar Temple premises</td><td>54.2</td></tr></table></td></tr>
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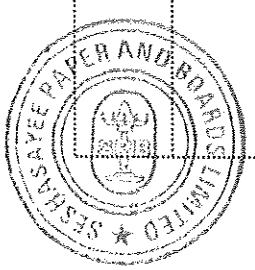

		Inside the Plant | **85 dBA** Wood pulp mill – RDH | 83.7 Paper Machine Ground floor | 82.7 New Recovery Boiler Area | 84.3 CPP – Power Boiler ground floor | 80.1 Extracted from Analysis Report of Advanced Environmental Lab, TNPCB, Salem for the period April 2022 – September 2022
6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being followed. ✓ Company is carrying out health surveillance programme and annual medical check-up for their employees. ✓ Industry has established full-fledged OHC with full time Medical Officer and round the clock nursing staff. ✓ Company has obtained accreditation under OHSMS 45001 (Occupational Health & Safety Management Systems), by M/s Det Norske Veritas, The Netherlands.
7	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	✓ RWH Structures are constructed inside the mill for recharge and for reuse. In all the quarters RWH were installed numbering 1032 for ground water recharge. Status -Complied.
8	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	✓ Supply of protected potable drinking water to all the villages and neighbouring community through network of pipelines 400 numbers of drinking water taps were installed in strategic places. ✓ Supply of treated wastewater after meeting inland surface water discharge standards for irrigation. ✓ Desilting of community check dams for collection of rain water during monsoon for the recharge of ground water.

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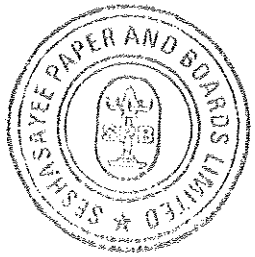
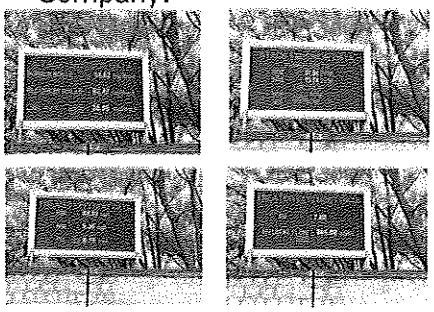
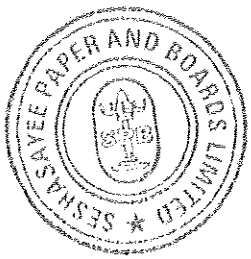
		✓ Education facility for the rural community in three schools run by the Company ✓ Donated land for the Goverment school Running of Community Health Centres for the benefit of the downtrodden. ✓ Regular sports activities like Cricket, Tennis, Volleyball, Kabaddi, Shuttle etc are carried out to improve the skills of the rural folk. ✓ Lot of awareness programmes were conducted for covid-19 and spraying Lizol in around the villages nearby. ✓ Contribution to state covid relief fund of 1.62 crores Status - Complied
9	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Chennai, The funds so provided shall not be diverted for any other purpose.	✓ Requisite funds have been earmarked for the Environment Pollution Control Measures as stipulated by the Ministry of Environment, Forests and Climate Change and the State Government. Status - Complied.
10	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body 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 web site of the company by the proponent.	The same is being exhibited in the company website Complied.



<table>
<tr><th>Sl.No</th><th>EC Condition</th><th>Compliance Status</th></tr>
<tr><td>11</td><td>The project proponent shall upload the status of compliance of the stipulated environment clearance 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 the MOEFCC at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM_{10}, SO_2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</td><td>✓ The same is being exhibited in the company website Complied.
✓ Real time data monitoring system Connected to TNPCB Care Air Centre and CPCB.
✓ Online Display Board installed at the main gate of the Company.
 
Status- Complied.</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>12</td><td>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC. the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Chennai / CPCB / SPCB shall monitor the stipulated conditions.</td><td>Being submitted regularly.
EC Six monthly compliance report for the last year were submitted as detailed below;
<table><tr><th>Year</th><th>Submitted on</th></tr><tr><td>2021-22 (Oct 21 – Mar 22)</td><td>09 05 2022</td></tr></table>
Status- Complied</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>13</td><td>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Chennai by e-mail.</td><td>Submitted regularly.
Environmental Statement (Form - V) for the last four years were submitted as detailed below;
<table><tr><th>Year</th><th>Submitted on</th></tr><tr><td>2018-19</td><td>26 09 2019</td></tr><tr><td>2019-20</td><td>26 09 2020</td></tr><tr><td>2020-21</td><td>25 09 2021</td></tr><tr><td>2021-22</td><td>19 09 2022</td></tr></table>
Status - Complied.</td></tr>
<tr><td></td><td></td><td></td></tr>
</table>

SESHASAYEE PAPER AND BOARDS LIMITED

<table>
<tr><th>Sl.No</th><th>EC Condition</th><th>Compliance Status</th></tr>
<tr><td>14</td><td>The Project Proponent shall inform the public that the project has been accorded Environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEFCC) at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Chennai.</td><td>The same is being exhibited in the company website Complied.</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>15</td><td>Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</td><td>Complied.</td></tr>
<tr><td colspan="3">Amendment in Environment Clearance F.No. J-11011/194/2013-IA II (I) dated 18 11 2019</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>15 A</td><td>There shall be no increase in chemical utilization and water consumption while maintaining the production of paper as approved.</td><td>Being followed - Complied.
Specific water consumption for the FY 2022 -2023 (April 22 – Sep 22) for the last six months were submitted as detailed below;
<table><tr><th>Financial Year</th><th>Water Con., use - Kl/t of products</th></tr><tr><td>2022 -2023 (Apr – Sep)</td><td>44.37</td></tr><tr><td>April 2022</td><td>46.76</td></tr><tr><td>May 2022</td><td>44.27</td></tr><tr><td>June 2022</td><td>45.71</td></tr><tr><td>July 2022</td><td>42.03</td></tr><tr><td>Aug 2022</td><td>44.11</td></tr><tr><td>Sep 2022</td><td>43.61</td></tr></table>source of data: Water (Prevention and Control of Pollution) Cess Rules -1978 Form: 4</td></tr>
</table>



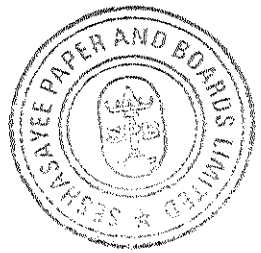
Statment of Effluent recycled back to process

DATE	PAPER MACHINE EFFLUENT		SRP		UF & RO Reject (M3/D)	Total Recyled water (M3)	Treated Effluent Discharged (M3/D)	Total effluent generated	% of water Recyled
	Non Coloured (M3/D)	Coloured (M3/D)	Primary condensate	Secondary condensate					
Apr-22									
TOTAL	71190	133206	19663	84377	32396	340832	555358	896190	
AVG	2373	4440	678	2910	1080	11361	18512	29873	37.99
MIN	1490	2367	246	1363	503	8217	13820	22037	33.30
MAX	3104	5714	802	4489	1447	14691	21576	33772	44.97
May-22									
TOTAL	70425	118720	21747	88470	38383	337745	552992	890737	
AVG	2272	3830	702	2854	1238	10895	17838	28733	37.91
MIN	666	3454	267	1028	1039	8115	16040	26091	30.67
MAX	3390	4104	810	3211	1518	11941	19656	31458	40.88
Jun-22									
TOTAL	80615	100430	21105	89879	33731	325760	537868	863628	
AVG	2687	3348	704	2996	1124	10859	17929	28788	37.66
MIN	1399	2300	392	1761	995	8552	16650	25402	30.37
MAX	3220	4805	783	3315	1338	12783	19823	31453	41.87
Jul-22									
TOTAL	91265	112410	20034	86062	35776	345547	523135	868682	
AVG	2944	3626	646	2776	1154	11147	16875	28022	39.67
MIN	2145	2664	307	1535	973	6528	12938	19466	30.54
MAX	3493	4660	770	3220	1340	12821	18883	30548	44.42
Aug-22									
TOTAL	65011	138065	22972	93881	34877	354806	563208	918014	
AVG	2097	4454	741	3028	1125	11445	18168	29613	38.63
MIN	1232	720	625	2502	982	6686	15816	25938	25.78
MAX	3230	6461	792	3360	1251	12877	21828	33374	43.07
Sep-22									
TOTAL	69613	143748	21731	92865	34104	362061	550420	912481	
AVG	2320	4792	724	3096	1137	12069	18347	30416	39.62
MIN	1550	3340	421	1732	980	9163	16748	27374	32.61
MAX	3180	6665	843	3657	1278	14330	20220	32645	44.61

SESHASAYEE PAPER AND BOARDS LIMITED

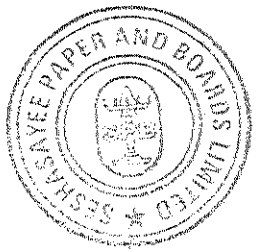
ABSTRACT FROM THE ANALYSIS REPORT OF ADVANCED ENVIRONMENTAL LABORATORY, (TNPCB) SALEM IN RESPECT OF GROUND WATER SAMPLE -Dt 24th March 2022

Parameters	Unit	Sivakumar Borewell Kattur	Subramnai Borewell Appanaikenpalayam	Venilla Borewell Pappampalayam	Jagathish Openwell Mukkuparai	SPB Borewell New Guest House
Conductivity at 25 deg C	µmhos/cm	1066	1226	1515	1072	423
pH at 25 deg C	Number	6.49	6.19	6.26	6.48	6.29
Total Dissolved Solids	mg/l	646	788	972	688	280
Chlorides as Cl	mg/l	160	205	215	130	36
Sulphates as SO4	mg/l	128	149	352	9	43
BOD (at 27 deg C for 3 days)	mg/l	<2	< 2	< 2	6.5	< 2
COD	mg/l	16.0	16.0	16.0	56.0	16.0
P.Alkalinity as CaCO3	mg/l	60	50	50	40	20
Fluoride as F	mg/l	0.222	0.389	0.544	0.522	0.517
Alkalinity as CaCO3	mg/l	230	230	270	410	148
Total Hardness as CaCO3	mg/l	300	310	390	380	128
Calcium as Ca	mg/l	64	100	92	112	40
Magnesium as Mg	mg/l	34	14.6	39	24	6.8
Sodium as Na	mg/l	98	103	147	86	42
Potassium as K	mg/l	24	26	19	19	7
Iron Total as Fe	mg/l	< 0.05	<0.05	< 0.05	< 0.05	< 0.05
Total Kjeldahl Nitrogen	mg/l	2.24	2.24	2.24	2.24	2.24
% Sodium	%	39	40	55	32	40
Oil & Grease	mg/l	< 4	<4	< 4	< 4	<4
Phosphate as PO4	mg/l	0.438	0.12	0.167	0.175	0.123



ABSTRACT FROM THE ANALYSIS REPORT OF ADVANCED ENVIRONMENTAL LABORATORY, (TNPCB) SALEM IN RESPECT OF GROUND WATER SAMPLE -Jan 2022

Parameters	Unit	Sivakumar Borewell Kattur	Subramnai Borewell Appanaikenpalayam	Venilla Borewell Pappampalayam	Jagathish Openwell Mukkuparai	SPB Borewell New Guest House
Conductivity at 25 deg C	µmhos/cm	987	916	923	1170	1878
pH at 25 deg C	Number	6.48	6.57	6.44	6.26	6.35
Total Dissolved Solids	mg/l	716	620	644	824	1244
Chlorides as Cl	mg/l	114	104	116	130	200
Sulphates as SO4	mg/l	205	208	175	239	312
BOD (at 27 deg C for 3 days)	mg/l	2.0	< 2	< 2	< 2	< 2
COD	mg/l	16	16	16	16	16
P.Alkalinity as CaCO3	mg/l	< 1	< 1	< 1	< 1	< 1
Fluoride as F	mg/l	0.040	0.051	0.063	0.051	0.092
Alkalinity as CaCO3	mg/l	180	160	170	240	270
Total Hardness as CaCO3	mg/l	250	200	210	260	370
Calcium as Ca	mg/l	60	56	44	68	76
Magnesium as Mg	mg/l	24	14	24	21	43
Sodium as Na	mg/l	120	120	121	174	251
Potassium as K	mg/l	6	4	4	5	20
Iron Total as Fe	mg/l	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Kjeldahl Nitrogen	mg/l	< 2	< 2	< 2	< 2	< 2
% Sodium	%	51	56	55	59	58
Oil & Grease	mg/l	< 4	< 4	< 4	< 4	0
Phosphate as PO4	mg/l	0.055	0.064	0.042	0.037	0.018



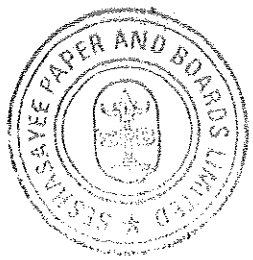
Seshasayee Paper and Boards Ltd
Erode- 638007

Charter on Corporate Responsibility for Environmental Protection (CREP – 2003)
Status Report

Sl No	Particulars	Implementation Schedule	Status
1	Discharge of AOX kg/ton of Paper	AOX 1.5 kg/t of paper (immediate 30 08 2005) AOX 1.0 kg/t of paper (by 01 03 08)	Implemented Elemental Chlorine Free(ECF) bleaching with Clorine Dioxide and Hydrogen Peroxide& Oxygen Delignification System, which keeps the AOX level under control. In our final treated effluent, the present AOX level is already less than 0.2 kg /t of paper. Status: Complied.
2	Installation of Lime Kiln	Within 4 years (by 2007)	Installed Rotary Lime Mud Reburning Kiln capable of firing furnace oil, bio-gas (methane), non condensable gases (mercaptans) etc.
3	Waste Water Discharge	Less than 140 cu .m per ton of paper within 2 years (by 2005)	Industry treated wastewater discharge is less than 40 cu.m per ton of paper by implementation of various effective inplant water conservation measures and recycling a significant portion of the waste water within the mill. Status: Complied.
		Less than 120 cu.m per ton of paper in 4 years for units installed before 1992. (by 2007) Less than 100 cu.m per ton of paper for units installed after 1992.	
4	Odour control by burning the reduced sulphur emissions in the boiler/lime kiln.	Installation of odour control system in 4 years (by 2007)	Installed Rapid Displacement Heating(RDH) system of cooking in RDH Wood Pulp Mill Installation of Free Flow Falling Film Type evaporation with odor control system . c) Installation of new high solids firing

SESHASAYEE PAPER AND BOARDS LIMITED

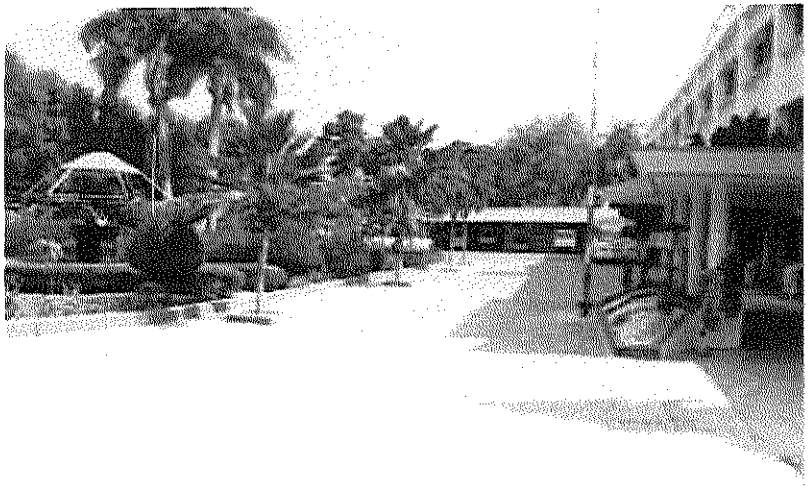
Sl No	Particulars	Implementation Schedule	Status
			chemical recovery boiler with increased thermal efficiency and without direct contact evaporation of black liquor, thereby reducing the demand on fossil fuels and reducing the emission of malodorous gases.
5	Utilisation of treated effluent for irrigation	Utilisation of treated effluent for irrigation whereever possible	Our treated effluent is being utilised for irrigation in about 2100 acres of dry and barren lands for over 40 years, for cultivation of Sugar Cane and other crops. Status: complied
6	Colour removal from the effluent	Indian Paper Manufacturers Association to take up project with Central Pulp and Paper Research Institute(CPPRI), Saharanpur	The colour in the final effluent is reduced to the minimum by adoption of various cleaner techonologies, at source and recycling. Our treated effluent is discharged on land for irrigation, where the colour in the treated effluent due to lignin (naturally occurring organic compound) which is removed by adsorption on soil and degradation by the soil micro organisms. The treated effluent percolating from the fields, after being used for irrigation, is void of colour and rich in dissolved Oxygen, since the soil acts as a good colour removing media with particular reference to the sandy loam soil available in the neighbourhood of the mill.



Green Belt Development
Latitude & Longitude

11° 20′ 59″ N -77° 45′ 33″E

11° 20′ 59″ N -77° 45′ 34″E



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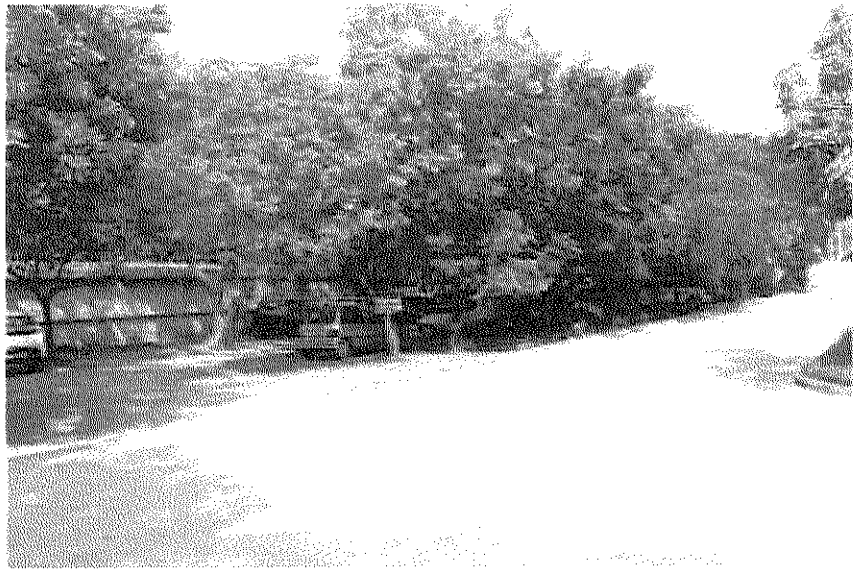

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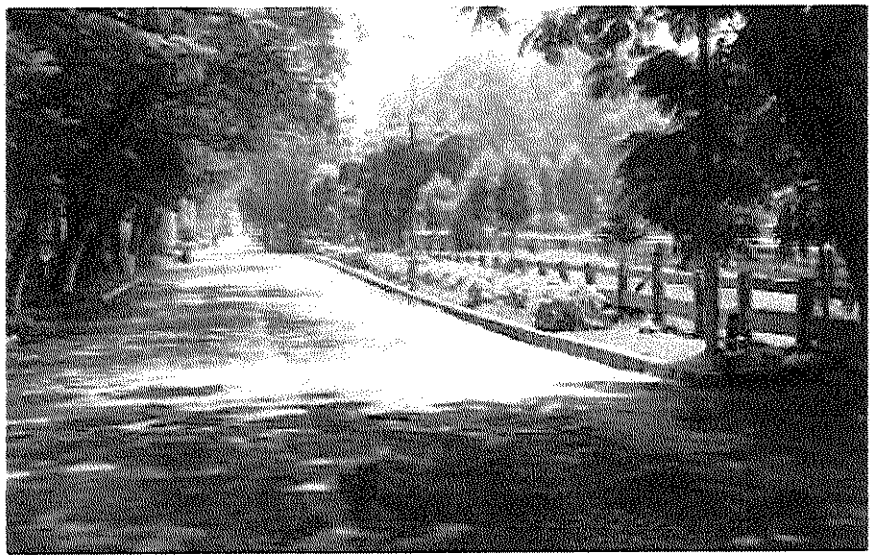

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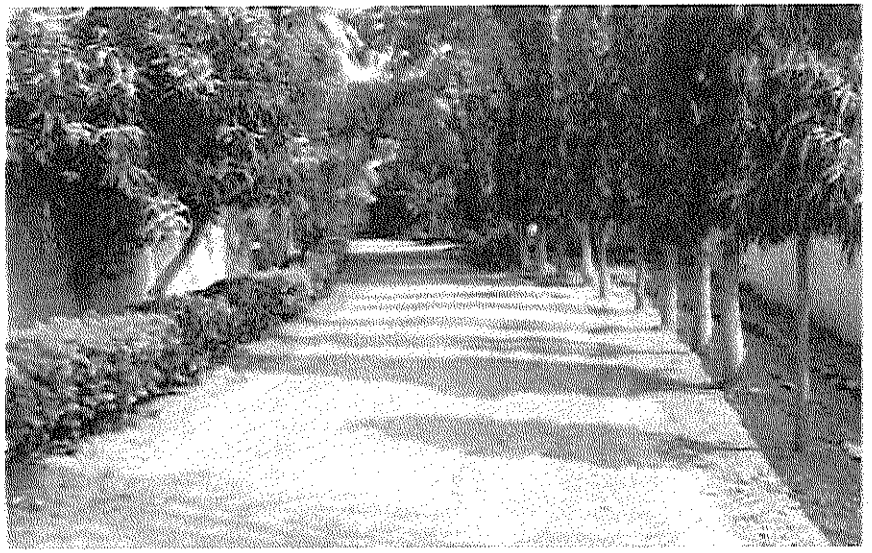

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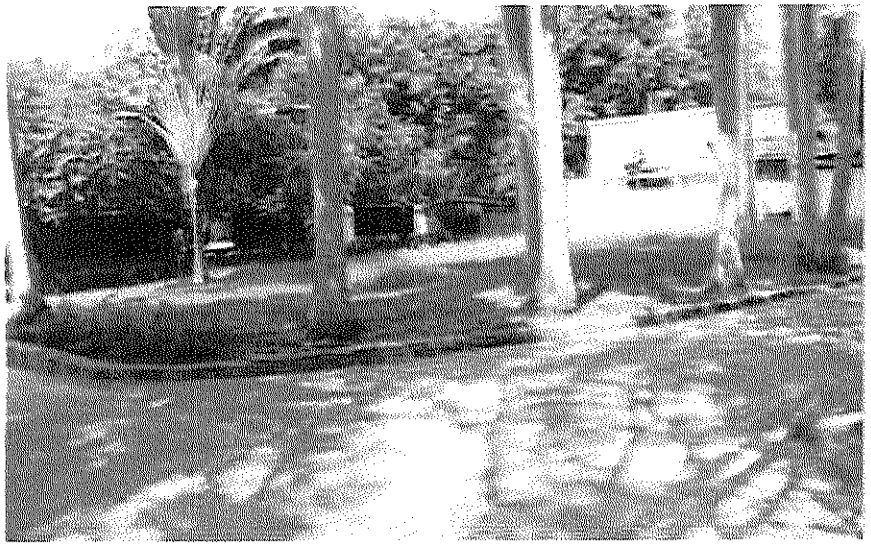

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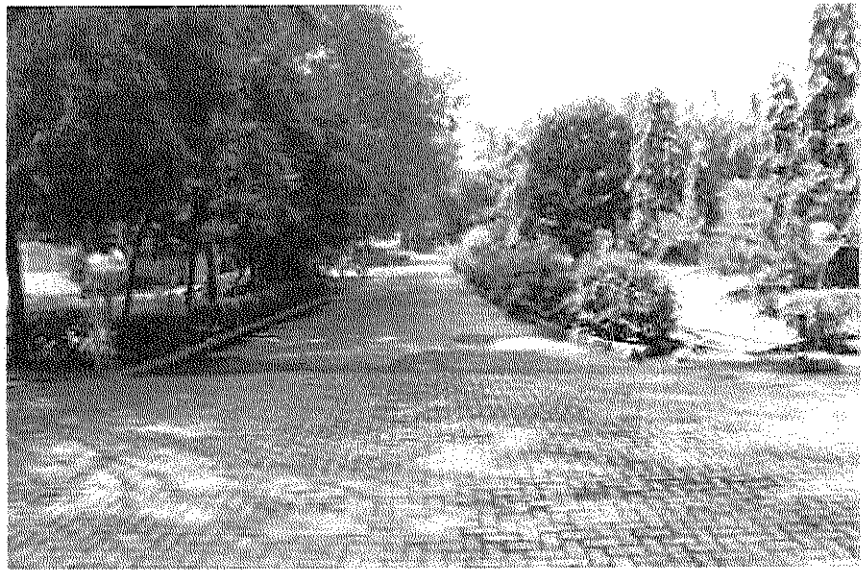

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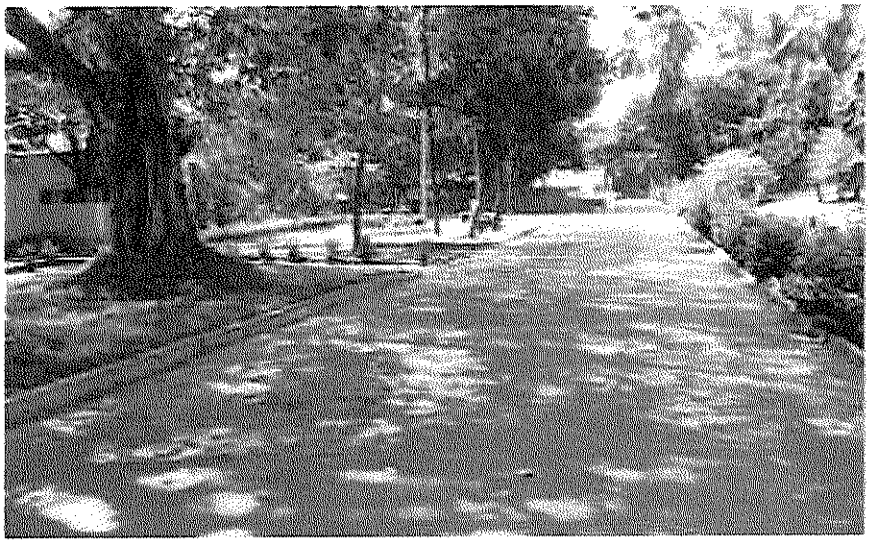

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