

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL  
SOUTHERN ZONE BENCH AT CHENNAI**

**Original Application No. 33 of 2023 (SZ)**

Nukatati Rajasekhar & another

.... Applicants

-Vs-

Union of India,  
Through its Secretary,  
Ministry of Environment Forest and CC  
& 6 others

... Respondents

**Status Reports filed by 7<sup>th</sup> Respondent to  
CPCB's Final Report dated 10.08.2023**

<b>S. No.</b>	<b>Date</b>	<b>Description of Document</b>	<b>Page No.</b>
<b>1.</b>	02.01.2024	1 <sup>st</sup> Status Report filed by 7 <sup>th</sup> Respondent to CPCB's Final Report	1
<b>2.</b>	16.07.2024	2 <sup>nd</sup> Status Report filed by 7 <sup>th</sup> Respondent CPCB's Final Report	<b>80</b>

Certified that the above documents are true copies of its originals

Dated at Chennai on this the 17<sup>th</sup> day of July, 2024



Counsel for 7<sup>th</sup> Respondent



**Lr. No : APL/ENV/2024/07- 661**

**16.07.2024**

To

Hon'ble Member Secretary

Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar,

Delhi-110032, [mscb.cpcb@nic.com](mailto:mscb.cpcb@nic.com)

**SUB: Andhra Paper Limited–Action taken cum compliance status Report No:2**

On Final report filled by Central Pollution Control board in compliance of  
The Hon'ble NGT (SZ), Chennai Order dated 12.04.23 in the matter of OA  
No.33 / 2023 – Regarding.

**REF : Andhra Paper Lr. No: APL/ENV/2024/01-613, dated 02.01.2024**

**Respected Sir**

The Hon'ble National Green Tribunal (NGT), South Zone, Chennai registered a case on the petition received from Sri Nukatati Rajasekhar & Sri Marri Pushparaj, Kotilingalapeta, Rajamahendravaram, East Godavari District, Andhra Pradesh in Original Application No.33 of 2023 (SZ). The Hon'ble Tribunal considered the prayer of O.A.No.33 of 2023 and directed, the Central Pollution Control (CPCB) can inspect and file a report in this regard.

Accordingly, the Central Pollution Control, Regional Directorate officials inspected M/s. Andhra Paper Limited and filed a report in The Hon'ble National Green Tribunal (NGT), South Zone, Chennai.

We are in receipt of the cited CPCB filled report through our council as well as NGT website. **Andhra Paper submitted ACTION TAKEN CUM COMPLIANCE STATUS REPORT vide cited reference on 02.01.2024 under report No: 1**

## **ANDHRA PAPER LIMITED**

**(Corporate Identity Number: L21010AP1964PLC001008)**

Regd. Office: Rajamahendravaram – 533 105, East Godavari District, India. Tel: +91-883-2471831

Corp. Office: 31, Chowringhee Road, Park Street, Kolkata – 700 016, India. Tel: +91-33-71500500

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**Now,** Andhra Paper Limited would like to **submit ACTION TAKEN CUM COMPLIANCE STATUS REPORT** for the observations / recommendations made in the said CPCB report for your kind perusal & oblige.

**Again, your kind attention is invited for the below facts and explanations:**

At the outset, we would like to brief about company background and further pollution control systems.

**Company Back Ground in brief :**

Andhra Paper is only the large pulp and paper industry in the state of Andhra Pradesh. Formerly International Paper APPM Limited, has a rich history of over 100 years when it was established as Carnatic Paper Mills limited in the year 1921. Over the years, the management of the Company changed hands and is presently known as Andhra Paper Limited. They are one of the largest paper and pulp manufacturers in India producing writing, printing and copier papers for foreign and domestic markets. Their production facilities at Rajahmundry and Kadiyam in East Godavari District, Andhra Pradesh, have a total production capacity of 240,000 Tonnes Per Annum (TPA). The company employs Direct and indirect work force of around 5300 persons overall for both the locations. Located at Rajamahendravaram, East Godavari District. The company holds ISO 14001, ISO 9001 & ISO 45001 certifications as well as the Forest Stewardship Council (FSC) Chain of Custody (COC) Certification which indicates that the wood as a raw material for paper production has been sourced from sustainably managed forests.

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## **Environmental Pollution Control Systems:**

### **1) Implementing Pioneering State-of-art technologies:**

The industry adopting state-of-the-art technologies achieving a sustainable production process as well as a sustainable environment. Their Farm Forestry program generates more wood on the earth than they consume for their production, in fact, at more than double the rate of its consumption. Their investment towards responsible farm forest stewardship ensures a healthy and productive forest ecosystem. Over a period of time the Respondent have invested in advanced technologies to deliver integrated and sustainable services and products based on excellent quality, safety, health and environment principles. A few notable technologies/facilities implemented are as follows:

- i. Bellmer Dewatering Sludge Press for ETP Sludge in Nov.2014
- ii. ETP Sludge Drier in May'2020
- iii. One of its Kind Odour Control Management i.e., LVHC & HVLC system
- iv. Foul Condensate Collection and treatment with H<sub>2</sub>O<sub>2</sub>
- v. Excellent Spill Control management
- vi. 100% cooking effluents segregated and reused under Chemical Recovery process.

**In addition to the above, the industry has implemented the following advanced technologies:**

- i. Continuous Cooking Digester Technology.
- ii. Environmentally friendly Elemental Chlorine Free (ECF) Process.
- iii. Oxygen Delignification bleaching to reduce pollution Load.

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- iv. Precipitated Calcium Carbonate production for inter use by using Lime Kiln flue gas CO<sub>2</sub> emission, thereby reducing greenhouse gases (GHG) emission into atmosphere.
- v. Waste to Wealth: Chemical Recovery Plant to produce Steam, Captive Power, White Liquor for wood cooking and weak white Liquor for reuse.
- vi. 65 – 68 % captive power generation from Bio Fuels (Black Liquor) management.
- vii. Water Conservation from 250 M<sup>3</sup> / Ton of product during inception of mill to 44 M<sup>3</sup> / Ton of product as June'24 and corresponding effluent reduction, thereby reducing the water consumption substantially, year on year.
- viii. Full-fledged Effluent Treatment Plant consists of Primary, Secondary & Tertiary Process.
- ix. Reclaimed Back Water System for reuse of effluents from Paper process operations.
- x. Reuse of Evaporator Secondary Condensates to reduce effluent load.
- xi. Turbo Air Blower for ETP Aeration system
- xii. Installation of JET Aerators in Aeration tank in May.2024 to further improve purification of wastewater.
- xiii. Used Oil recycling into non-critical equipment to reduce waste.
- xiv. Drinking Water Supply to Surrounding Communities @ 2500 M<sup>3</sup> / day.
- xv. Farm Forestry: Revenue generation to farmers & Waste Lands become the means of employment.

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The above technologies and facilities ensure sustainable growth through a smart investment portfolio leading to environment friendly growth and to adherence to the compliance standards.

**The proposed investments and its status for further enhancement of pollution abatement is table below and is a continues ongoing process to upgrade and updating our systems for Environmental sustainability.**

<b>FY – 2023-24 &amp; 25: Proposed Capital investments Status as on JULY'24</b>				
S.No	Action Plan	Budget Rs.Lac	Target completion	Current Status
1	<b>ETP Improvement:</b> Jet Aerators Installation in Aeration Tank. 2 by replacing diffuser membrane system.	<b>174</b>	Completed	<b>Commissioned on 04.05.2024</b> in Aeration No: 2 by replacing existing 15-year-old diffuser Membrane system to improve dissolved Oxygen (DO), thereby improves treated effluent quality in terms of COD / BOD. Overall 8 No's commissioned having total 460 HP i.e. 298.28 x 2.0 kg / KW O2 transfer cap. = 596.56 KG O2 @ Rs. 1.74 Crores. DO achieved > 1.5 mg/lt.
2	<b>Dust Extraction</b> System in Chipper House	<b>200</b>	Completed	In Operation
3	<b>Replacement of analyzers in existing 2nd - AAQMS station for PM 10, PM 2.5, So2 NOX.</b> Installation of VOC also.	<b>50</b>	Completed	In operation and connected to PCB
4	H2 S online stack analyzer for RLK. 2			1) Installation completed 2) U / data stabilization & calibration stage
5	<b>Water Sprinklers at Coal yard and Lime Kiln area.</b>	<b>2</b>	Completed	Total 137 Nos of sprinklers installed and in operation

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6	<b>Recovery Boiler ESP – 3</b> Fields 1 to 4 renovation during mill shut for 35 days.	<b>1300</b>	Completed	In operation
7	<b>ETP Cooling Tower 100 %</b> renovation and Upgradation to achieve < 35 deg.c effluent temperature.	<b>73.74</b>	Completed	In operational for 3 <sup>rd</sup> week of August.2023.
8	<b>Water Conservation:</b> Replacement of fresh water with Paper Machine waste water in Pulp Mill D 1 stage @ 3600 M3 / day	<b>70</b>	Completed	In operation.
9	Oxygen Injection Line into Aeration rank – 1	<b>5</b>	Completed	Emergency use in aeration tank u/contingency plan.
10	Additional 2 no's of AAQMS as per EC condition	<b>95.87</b>	Completed	In operation and connected to APPCB since 10.06.2024
11	Storage shed for ETP Sludge	<b>10.44</b>	Completed	In operation
12	VFD for Aeration tank inlet pump to maintain consistent flow rate	<b>22.00</b>	Completed	In Operation
13	Installation of Flow meter on inlet header of Water sprinklers ( 3 No's)	<b>10.0</b>	End Sep.24	Under budget approvals
14	Procurement VOC handset, New BOD incubator, Standby AC to CEMS room & Renovation of instrument cables for CEMS stations	<b>7.58</b>	End Sep.24	Under budget approvals
<b>Total Investment on EMS</b>		<b>Rs.2020.06 Lacs ( 20.20 Cores)</b>		

## 2. Air Pollution Control :

All the source emissions from the stacks are controlled by Electrostatic Precipitators (ESP). The main source of Air pollution, if any is from the stacks of Recovery boiler, Coal fired boiler, Rotary lime kilns – 1 & 2. All these stacks are provided with ESPs for control of air pollution. Air pollution control equipment is well maintained and overhauled from time to time for sustainable performance. Focused on sustainable and reliable operation of Air

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Pollution Control Systems (APCS) and investing on continuous basis year-on-year under preventive maintenance program. During the Financial year 2022-23, this Respondent spent Rs.8.69 crore for renovation of the ESPs and next financial year FY 2023-24, the industry allocated Rs.13.0 Cores. We are operating in an environmentally sustainable and ethical way for controlling the air pollution.

All the four stacks fitted with online continuous emission monitoring analysers and the data therefrom are immediately transmitted to the CPCB and the APPCB sites. The details of ESPs employed are tabled below:

Recovery Boiler -4 stack	ESP – 3 no's	Total : 3+3+5 = 11 fields
Coal Fired Boiler - 6 Stack	ESP -1 No	Total : 3 fields
Rotary lime kilns - 1 stack	ESP -1 No	Total : 2 fields
Rotary lime kilns - 2 stack	ESP -1 No	Total : 3 fields

### **3. Odour Control:**

The odour control systems provided at the Plant is one the best and unique among Indian Paper industry. Other paper industries are visiting this mill to study and adopt this infrastructure for their establishments. In the year 2014–15, the mill engaged M/s. Lundberg – USA for evaluation of odour control systems and to suggest best technologies/alternatives and for upgradation requirements of existing systems to address odour. At that time,

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the US International Paper's (former entity) Subject Matter Experts (SMEs) guided and monitored the execution and commissioning of below projects at a cost of Rs.11.64 crore;

- 1) Installed Collection and Treatment of Foul streams with hydrogen peroxide and further in ETP.
- 2) Up graded the existing LVHC NCG Incineration System
- 3) Up graded the existing HVLC NCG Incineration System

#### **4. Water Pollution Control:**

River Godavari is the source of water for process and domestic consumption. Flow meter is provided at the raw water intake and effluent discharge point. The effluent generated from integrated pulp and paper manufacturing process is treated at Effluent Treatment Plant (ETP) having a capacity of 45000 KLD through extended Activated Sludge Process. ETP consisting of Primary clarifiers, Cooling tower, Aeration tanks – 2 no's, Secondary clarifiers – 2 no's, Tertiary clarifier, Sludge dewatering presses – 2 no's & Sludge Drier.

The treated effluent after reuse for gardens within the premises and remaining excess is being discharged to Sand Bunds at Turuplanka island which is located middle of the river through pipeline by pumping as per the disposal method permitted in the Consent to Operate. It located 5 kms upstream of the Industry and intake of raw water to the Industry. The know-how and designs for this unique initiative was provided by Central Public Health Engineering Research Institute (CPHERI) –now known as

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CSIR-NEERI.

The industry is maintaining online real time monitoring system for monitoring of Flow, pH, TSS, BOD and COD along with web camera facilities as per the directions of CPCB. The industry connected Online effluent quality monitoring system to APPCB & CPCB websites.

The APPCB has been collecting the treated effluent being disposed into Sand Shoals of Thurpulanka by M/s. Andhra Paper Limited on monthly basis. As per the analysis reports all the parameters of the treated effluent are meeting the APPCB's discharge standards.

#### **5. ETP SLUDGE HANDLING SYSTEM:**

The plant has installed one of the best technologies that is superior to any other facility in the Indian paper industry. Infact, this Respondent is the only establishment that has installed the ETP sludge dryer in the Indian paper industry. This ETP sludge handling system comprises the following features:

- i. Bellmer Press for handling of Primary and secondary ETP sludge to obtain dryness of 35%.
- ii. The above obtained 35 % dried sludge is taken to “SLUDGE DRIER” to obtain 85% dryness and is being fed to coal fired

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boiler as biofuel as per Consent issued by the APPCB. The Gross Calorific Value (GCV) is around 2000 Kcal/Kg.

iii. Andritz Press for handling Reclamation back water system white fiber sludge to obtain 35 % dried cake and is being sold to egg tray manufacturers as per consent.

## **6. GODAVARI RIVER WATER QUALITY**

i. The APPCB has submitted ACTION PLAN FOR REJUVENATION OF RIVER GODAVARI, RAJAMAHENDRAVARAM, Under PRIORITY – V to CPCB, New Delhi. The concluding remarks by the board is extracted below for easy reference:

*“As per the NWMP data for the years from 2014-19, it was observed that F.Coli levels are less than 500 MPN/100 ml. The BOD levels recorded are less than 3 mg/l except in the month of May, 2016. As the BOD and F. Coli levels are within the outdoor bathing standards, during the years 2017, 2018 & 2019, it is requested that Godavari River Stretch may be deleted from the list of 351 Polluted River Stretches identified by CPCB”.*

ii. Earlier, River Godavari from Rayannapeta to Rajamahendravaram was notified as polluted River stretch by CPCB under priority-V (BOD range 3-6 mg/l) in O.A. No. 673 of 2018 and same was removed from polluted river stretch as per the minutes of the 15th meeting of Central Monitoring Committee in the NGT matter in O.A.No.673 of 2018 held on 10.01.2023.

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## **7. WASTE MANAGEMENT**

Hazardous and nonhazardous wastes generated are stored under sheds / closed containers and disposed as per methodology prescribed in the Consent To Operate permit issued by A.P.Pollution Control Board.

All the above materials and facts clearly indicate that there is no adverse impact on Godavari river water quality due to company operations and treated effluent disposal methods which is being scrupulously followed by it since its inception and being enhances further year-on-year moving towards sustainability by investing on environmental pollution abatement.

**2<sup>nd</sup> report on "Action taken cum compliance status" on the recommendations filed by Central Pollution Control board in compliance of the Hon'ble NGT (SZ),Chennai Order dated 12.04.23 in the matter of OA No. 33 / 2023 is attached to this letter for your kind information and consideration.**

It is therefore prayed CPCB may please to record this 2<sup>nd</sup> report.

Yours Sincerely

For **Andhra Paper Limited. Unit – Rajahmundry**

**M. Sura Reddy**  
**Sr. Vice President (Operations) & Factory Manager**

CC : Central Pollution Control Board - Regional Directorate, Chennai  
Andhra Pradesh Pollution Control Board – Environmental Engineer - Regional Office, Kakinada

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**Andhra Paper Limited – Unit: Rajahmundry**

**2<sup>nd</sup> Report on “Action taken cum compliance status” on the recommendations filed by Central Pollution Control board in compliance of the Hon’ble NGT (SZ),Chennai Order dated 12.04.23 in the matter of OA No. 33 / 2023.**

<b>CPCB Report Page No &amp; S. No</b>	<b>CPCB’s Observation / Recommendation</b>	<b>M/s. Andhra Paper Limited Compliance Response</b>
Page No: 22 S. No : 18 Point No : i	To renew the lease agreement for discharge of treated effluent to lagoons at Turupulanka.	<p><b>Under Progress with District Administration &amp; is being perused constantly Andhra Paper Limited.</b></p> <p><b><u>Present status:</u></b></p> <p><b><u>1) Lease recommended for the period from 1999 to 2009 and further period of 33 years i.e. up to 2042:</u></b> The Chief Commissioner of Land Administration &amp; Special Chief Secretary to Govt. Of A. P recommended Turupulanka Island lease renewal from 1999 to till 2009 and for a further period of 33 years and forwarded recommendation to Government of Andhra Pradesh on 14.08.2014 for further action <b>(ANNEXURE – 1)</b>.</p> <p><b>2) Commissioner of Industries, Government of A. P recommended the lease proposal to Principal Secretary of Industries and commerce, Government of A.P vide Lr. No :29/1/2014/14744, dated 29/11/2014 subject to 10 % of present market value as lease amount with provision for enhancement of lease amount in a block period of 5 years (ANNEXURE- 2)</b></p>

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		<p><b>3) District Collector, East Godavari</b> communicated vide ref. E1/495/2016, dated 04.2016, stating that matter is referred to Sub - Collector, Rajamahendravaram and also constituted a committee with the members of A.D Agriculture, A.D Horticulture, District Registrar and Tahsildar to examine the lease proposal and also for fixation of lease rent.</p> <p>4) Committee headed by Sub- Collector inspected Turupulanka on 28.09.2016. Currently the matter is under process with District Administration.</p> <p><b>5) Again as per letter dated 18.03.2023, Turupulanka land survey conducted by Office of Tahsildar - Rajamahendravarm Urban on 20.03.2023 and report submitted to District Collector (ANNEXURE - 3).</b></p> <p>6) Recent submission to District Collector vide letter dated 24.06.2024 is filed herewith as <b>ANNEXURE - 4</b> wherein this cited all the above facts and requested for the renewal of the lease.</p> <p><b><u>Diligently following up with the District Administration through personal meetings and follow up communication letters (13 no's).</u></b></p> <p><b>Lease rentals are being paid as per existing rates to government on every year. The details of payments submitted under below table :</b></p>
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Lease Rental Payment as per G.MS NO : 810 dated 04.08.1992 per AC 612.70 cents.			
Fasli Year	Amount(Rs)	Cheque No / Online transaction ID	Cheque / Online paymet date
1999-2001	3,67,626	700231	19-05-2001
2001-2004	5,51,439	315124	23-10-2003
2004-2006	1,83,813	274821	01-11-2005
2006-2007	1,83,813	455115	02-11-2006
2007-2008	1,83,813	461931	23-07-2007
2008-2009	1,83,813	416698	17-06-2008
2009-2010	1,83,813	46438	24-06-2009
2010-2011	1,83,813	52259	01-07-2010
2011-2012	1,83,813	375656	16-12-2011
2012-2013	1,83,813	380089	23-06-2012
2013-2014	1,83,813	495706	13-09-2013
2014-2015	1,83,813	870509	20-06-2014
2014-2015	1,83,813	790487	09-03-2016
2015-2016	1,83,813	790488	09-03-2016
2016-2017	1,83,813	327240	10-08-2016
2017-2018	1,83,813	369440	27-07-2017
2018-2019	1,83,813	339135	18-07-2018
2019-2020	1,83,813	Online payment	June.2019
2020-2021	1,83,813	N261201247359316	16-09-2020
2021-2022	1,83,813	Online payment	29-06.2021
2022-2023	1,83,813	Online payment	20.06.2022
2023-2024	1,83,813	N265232653242718	22.09.2023

Page No: 22 S. No : 18 Point No : ii	To augment air pollution control devices at recovery boiler and coal fired boiler to control particulate matter emissions.	<p><b>Recovery Boiler Action Plan</b></p> <p><b>Compliance:</b></p> <p>Emissions from the stack is controlled by Electrostatic Precipitators (ESP). There are 3 ESPs with total of 11 no's (3+3+5) of electric fields.</p> <p><b>1) During mill Annual Shut from 19<sup>th</sup> Feb to 31<sup>st</sup> March'24 the following actions were done:</b></p> <ul style="list-style-type: none"> <li>- 100 % replacement of ESP No: 3 fields 1 to 4 internals consists of collecting electrodes, emitting</li> </ul>
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		<p>electrodes, inlet Gas Distribution screen, outlet Gas Distribution screens, rapping systems etc.. with a cost of Rs. Rs.13.00 Crores by M/s. KC Cottrell Engineering services, Chennai.</p> <ul style="list-style-type: none"> <li>- Common ash collection conveyers and related ducting were renovated</li> <li>- ESP Inlet &amp; Outlet flue gas ducting renovated.</li> <li>- Inlet &amp; Outlet Cone of ESP.3 modified to balancing flue gas distribution among all ESPs.</li> <li>- Rapping mechanism also undertaken for maintenance and repairs to improve dust collection.</li> <li>- Addressed thoroughly for Air ingress issue in ESP ducts, cones etc... to avoid negative pressure, aging, leakages and corrosion of ESP internal components to increase the efficiency of dust collection.</li> </ul> <p><b>2) Year 2022 : ESP.1 &amp; 2 Renovation:</b></p> <p>In the year 2022-23, all the internal fields for ESP 1 &amp; 2 completely replaced with a cost of <b>Rs.8.69 Cores.</b></p> <p><b>3)Year 2021 ESP – 3 field – 5 Renovation:</b></p> <p>In the year 2020-21, the 5<sup>th</sup> field internals replaced with a cost of <b>Rs.95.0 Lacs.</b></p>
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## ANDHRA PAPER LIMITED

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		<b>Coal fired Boiler Action Plan</b>
		<p><b><u>Compliance:</u></b></p> <p>1) Coal fired boiler emission from the stacks are controlled by Electrostatic Precipitators (ESP). There is one ESP with a total of 3 electric fields.</p> <p><b><u>2) During mill Annual Shut from 19<sup>th</sup> Feb to 31<sup>st</sup> March'24 the following actions were done:</u></b></p> <p>90 No's of ESP collecting electrode plates for 2 &amp; 3 fields were replaced with new under preventive measure. Air ingress issues in ducting addressed.</p> <p><b><u>Further it is bring to your kind notice that :</u></b></p> <p>1) NABL accredited 3<sup>rd</sup> party has been testing once in a month and the PM values are within the norms. The 3<sup>rd</sup> party test reports of last two months i.e. May'24 &amp; June'24 are filed herewith as <b>ANNEXURE - 5</b>.</p> <p>2) The PM values of samples collected by APPCB on 02.05.2023 is within the norms. Recovery Boiler PM value is 40.4 mg/ Nm<sup>3</sup> against the norm of 50 mg/Nm<sup>3</sup>. Coal fired boiler PM value is 38.7 mg/ Nm<sup>3</sup> against the norm of 50 mg/Nm<sup>3</sup>. The APPCB reports of the collected samples are filed herewith as <b>ANNEXURE - 6</b>.</p> <p>3) The PM values of samples collected by M/s. Glens Innovation Labs Pvt. Ltd on 12.12.2023 &amp; 14.12.2023 is within the norms. Recovery Boiler PM value is 44.0</p>

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		mg/ Nm <sup>3</sup> against the norm of 50 mg/Nm <sup>3</sup> . Coal fired boiler PM value is 47.2 mg/ Nm <sup>3</sup> against the norm of 50 mg/Nm <sup>3</sup> . The said copies of reports are filled herewith as <b>ANNEXURE - 7.</b>
Page No: 22 S. No : 18 Point No : iii	To implement measures to control Hydrogen Sulphide emissions at Rotary Lime Kilns -1 and Rotary Lime Kilns -2 and comply with the source emission standards.	<p>1) The rotary lime kiln temperature are always maintained higher than 1050 deg.c for 100 % calcination of Ca Co<sub>3</sub> to CaO, which is the output product to use in further manufacturing processes.</p> <p>At this elevated temperatures, there no chance of H<sub>2</sub>S emission from stacks.</p> <p>2) The Non Condensable Gases (NCG), which contain Sulphur compounds are incinerated in rotary lime-kilns across all pulp and paper industries and the same is a proven technology for treatment of these NCG gases.</p> <p>3) The temperature profile recorded during sampling period by CPCB on 15.05.2023 is attached as <b>ANNEXURE - 8.</b> The temperature of KILN-1 is &gt; 1290 deg.c &amp; KILN-2 is &gt; 1440 deg.c.</p> <p>4) The higher Kiln temperature indicates that H<sub>2</sub>S presence in the NCG gases is completely decomposed. Hence, there is no chance of such high values reporting in stacks flue gases.</p> <p>5) The H<sub>2</sub>S values of samples collected by APPCB on 02.05.2023 are within the norms.</p>

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		<p>Rotary Lime Kiln – 1 H<sub>2</sub>S value is 7.0 mg/ Nm<sup>3</sup> against the norm of 10 mg/ Nm<sup>3</sup>.</p> <p>Rotary Lime Kiln – 2 H<sub>2</sub>S value is 6.8 mg/ Nm<sup>3</sup> against the norm of 10 mg/ Nm<sup>3</sup>.</p> <p>The APPCB reports recording these values is filed as <b>ANNEXURE – 9</b>.</p> <p>6) The H<sub>2</sub>S values of samples collected by NABL accredited 3<sup>rd</sup> party M/S. Glens Innovation Lab Pvt. Ltd on 07.07.2023, 12.12.2023 &amp; 14.12.2023 are within the norms.</p> <p>Rotary Lime Kiln – 1 H<sub>2</sub>S values are 9.1 mg/ Nm<sup>3</sup> &amp; 8.0 mg/ Nm<sup>3</sup> respectively against the norm of 10 mg/ Nm<sup>3</sup>.</p> <p>Rotary Lime Kiln – 2 H<sub>2</sub>S value is 8.5 mg/ Nm<sup>3</sup> &amp; 7.2 mg/ Nm<sup>3</sup> respectively against the norm of 10 mg/ Nm<sup>3</sup>.</p> <p>The reports of said 3<sup>rd</sup> party recording these values are filed as <b>ANNEXURE – 10</b>.</p> <p>7) NABL accredited 3<sup>rd</sup> party is testing the samples once in a month and the H<sub>2</sub>S values are within the norms. The 3<sup>rd</sup> party test reports of last two months i.e. May'24 &amp; June'24 are filed herewith as <b>ANNEXURE - 11</b>.</p>
<p>Page No : 22 S. No : 18 Point No : iv</p>	<p>To calibrate and operate the OCEMS installed for monitoring particulate matter emissions, properly and record the actual concentrations.</p>	<p><b><u>Complied With</u></b></p> <p><b>1) Calibration :</b></p> <p>Annual Calibration schedule is in place for once in a quarter. The recent calibrations of OCEMS done in November'2023 &amp;</p>

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		<p>May'2024 are herewith filled as <b>ANNEXURE -12</b>. The calibration reports indicates which are in the acceptable range.</p> <p><b>2) Maintenance and quality control checks :</b></p> <p>All stack PM online sensors were undertaken for comprehensive maintenance and quality control checks in the month of April,2024 ( Mill shut from 19.02.2024 to 30.04.2024 for annual maintenance and further workers unrest ) by Equipment Supplier M/S. Swan Environmental Pvt. Limited, Hyderabad. The same reports are filed herewith as <b>ANNEXURE - 13</b>.</p>
<p>Page No : 22 S. No : 18 Point No : v</p>	<p>To reduce the temperature of the effluent to less than 35°C prior to microbial treatment</p>	<p><b><u>Complied With</u></b></p> <p>100 % renovation of Cooling Tower undertaken with at a <b>cost of Rs.73.714 Lacs</b> to reduce effluent temperatures before going to microbial aeration treatment.</p> <p>The following works done :</p> <ul style="list-style-type: none"> <li>• Increase Fan capacity from 50 HP to 100 HP</li> <li>• Fan wings increased from 4 no's to 8 no's.</li> <li>• Increased heat transfer surface area by modified designed internals</li> <li>• Replacement of drip eliminators.</li> <li>• Modification of distribution arrangement of effluent from spray nozzles.</li> <li>• Strengthening of total civil structure.</li> </ul>

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		<p><b>Commissioned and kept in operational since 3<sup>rd</sup> week of August, 2023.</b></p> <p>The compliance report submitted to APPCB are filed herein as <b>ANNEXURE - 14</b>.</p>												
<p>Page No: 12 S. No : 18 Point No : vi</p>	<p>To develop greenbelt in 33% of the total land area of the Industry to mitigate effects of fugitive emissions.</p>	<p><b><u>Complied With</u></b></p> <p>1) Additional green belt in 1.0 Acre within the premises was undertaken with Various saplings like KADAMBA, CONOKARPUS &amp; ASHOKA.</p> <p>2) This monsoon also proposed to further increase green belt. Already 600 sapling were procured now and ready for planation.</p> <p><b>Now the present green belt is 33.3 %.</b> The photographs of the Plantations are attached as <b>ANNEXURE - 15</b></p> <p><u>The current break is as below:</u></p> <table border="1"> <tr> <td>1</td> <td><b>Total Land area</b></td> <td><b>198.09</b></td> </tr> <tr> <td>2</td> <td><b>Buildings, roads &amp; walkways</b></td> <td><b>40.29</b></td> </tr> <tr> <td>3</td> <td><b>Wood storage, truck parking and open area</b></td> <td><b>91.8</b></td> </tr> <tr> <td>4</td> <td><b>Green Belt</b></td> <td><b>66</b></td> </tr> </table>	1	<b>Total Land area</b>	<b>198.09</b>	2	<b>Buildings, roads &amp; walkways</b>	<b>40.29</b>	3	<b>Wood storage, truck parking and open area</b>	<b>91.8</b>	4	<b>Green Belt</b>	<b>66</b>
1	<b>Total Land area</b>	<b>198.09</b>												
2	<b>Buildings, roads &amp; walkways</b>	<b>40.29</b>												
3	<b>Wood storage, truck parking and open area</b>	<b>91.8</b>												
4	<b>Green Belt</b>	<b>66</b>												
<p>Page No : 12 S. No : 18 Point No : vii</p>	<p>To install two Continuous Ambient Air Quality Monitoring Stations in addition to the existing two CAAQM Stations and ensure operation of all the four CAAQM Stations.</p>	<p><b><u>Complied With</u></b></p> <p>1) Additional two (2) more Continuous Ambient air quality monitoring stations (CAAQMS) installed &amp; commissioned on 10.06.2024 at below locations :</p> <ul style="list-style-type: none"> <li>• Opp. Pulp Mill</li> <li>• In Sewage Treatment Plant</li> </ul>												

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		<p>2) Existing CAAQMS are at :</p> <ul style="list-style-type: none"> <li>• Near ETP</li> <li>• Terrace of Godavari House</li> </ul> <p>3) All four (4) CAAQMS have fitted with PM10, PM 2.5, SO2, NOx &amp; VOC for continues monitoring, recording and data transmission to PCB site.</p> <p>4) <b><u>Now there four (4) AAQMS as per EC conditions :</u></b></p> <ul style="list-style-type: none"> <li>- Near STP</li> <li>- Opp. Pulp Mill</li> <li>- Near ETP</li> <li>- Terrace of Godavari House.</li> </ul> <p>The screenshots of the Data uploading are filed herewith as <b>ANNEXURE-16</b> and the photographs thereof are filed herewith as <b>ANNEXURE-17</b>. Installation and commissioning report also attached under <b>ANNEXURE - 18</b></p>
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**M. Sura Reddy**  
**Sr. Vice President (Operations) & Factory Manager**

**16.07.2024**

## **ANDHRA PAPER LIMITED**

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**GOVERNMENT OF ANDHRA PRADESH**  
**REVENUE DEPARTMENT**

From:  
The Chief Commissioner of  
Land Administration & Special  
Chief Secretary to Govt. Andhra Pradesh,  
HYDERABAD.

To  
The Principal Secretary to Govt.  
Revenue (ASR) Department  
Andhra Pradesh, Secretariat,  
HYDERABAD (W.E).

CCLA's Lr. No. Assign-II (2) / 990 / 2008, Dt. 14-09-2014.

Sir,

**Sub:** LAND - East Godavari District - Lease of renewal of Turupulanka and sand shoals in River Godavari measuring an extent of Ac.612.71 cents in Rajahmundry (village) and (M) requested for lease a further period of (10) years from 01.07.1999 to 30.06.2009 - the proposal is placed before the APLMA for necessary action - Reg.

- Ref: 1** Government Memo.No.46260/Assn.VI/99-8, Revenue (Assn.VI) Department, Dated: 13.06.2008.  
**2** C.C.LA's Ref.No.SPLB2/990/2008, Dated: 05.07.2008.  
**3** Memo.No.15-1-08-613/613/1D, Dt: 01.10.2008 of Commr. of Industries, Hyderabad.  
**4** Collector, East Godavari District Ref.No.E1/2386/2003, Dt: 24.10.08.  
**5** Minutes of the Meeting of APLMA held on 22.7.2014 vide SI.No.11

-00-

Kind attention of the Government is invited to the references cited.

Earlier, the Government have issued orders vide G.O.Ms.No.810 Revenue (Assn.I) Department, Dated: 04.08.1992 granting lease in an extent of Ac. 612.71 cents situated in Turupulanka and sand shoals in River Godavari to A.P. Paper Mills, Rajahmundry for discharge of its treated industrial effluents for a period of 10 years with effect from 1.7.1989 or till the completion of dedicated drain whichever is earlier in favour of A.P. Paper Mills Limited, Rajahmundry at the rate of Rs.300/- per acre per annum.

Subsequently, the Collector, East Godavari district in his reference No. E1/3517/95, dated: 02.06.1999 has submitted proposals directly to the Government for extension of lease for a period of (10) years i.e., from 01.07.1999 to 30.06.2009 @ Rs.525/- per acre per annum (Rupees Five hundred and twenty five only) and increase of lease of lands leased out for Non-Agricultural Purpose @ 10% per annum, as the existing lease has expired by 30.06.1999.

The Collector, East Godavari District in his reference dated: 9/2002 has furnished a calculation sheet on fixation of lease rent with effect from 01.07.1999 to 30.06.2009 and the same was sent to Government.

The Collector, East Godavari District in his reference dated: 24.10.2008 has submitted a detailed report informing that after obtaining estimates from the Zonal Manager, A.P.J.C. Kakinada an amount of Rs.160.00 Crores may be required for execution of the dedicated drain from (1) Rajahmundry to Avulamanda (2) Maredubaka to Tallarevu (for formation of dedicated drain).

Vide D.O.Lr.No.15-1-2008-1272-1272-ID, Dated: 18.08.2009, the Commissioner of Industries has informed that important issues that are likely to come up in the State Investment Promotion Board Meeting for discussion on the issue pertaining to Andhra Pradesh Paper Mills i.e., continuation of lease on long term basis for an extent of Ac.612.71 cents and Sand Shoals in the river bed of Godavari for a period of (50) years at existing rates.

Vide C.C.LA's Lr.No.Spl.B2/990/2008, DATED: 21.08.2009 a factual report was sent to the Commissioner of Industries, Hyderabad requesting the Commissioner of Industries, Hyderabad to appraise the above facts to the Government for taking further necessary action in the matter.

The proposal of the Collector, East Godavari District has been placed before the APLMA in the meeting held on 22.7.2014 for taking a decision in the matter.

The Director, Government Relations & Regulatory Affairs International Paper APPM Limited has attended the meeting and stated that the last lease rental fixed by the State Revenue Department was @ Rs. 300/- per acre per year, which for 612.71 acres works out to Rs. 1,83,813/- this amount had been paid regularly by the company since the year 1999, till June 2015. Sri Rajat Kumar, Commissioner Industries explained the need to support the proposal as it is an established unit running successfully and the precondition in the GO regarding common drain construction is not relevant now as it is shelved.

The APLMA has decided to recommend the proposal to the Government for renewal of lease from 1999 to till 2009 and for a further period of 30 years in favour of the International Paper Limited, Rajahmundry, East Godavari District at 10% of the present market value as lease amount with a provision for enhancement of lease amount in a block period of 5 years. The Collector to recover the lease amounts dues from 1999 to till date and collect every year hereafter.

The proposal of the Collector, East Godavari District along with connected record and the minutes of the meeting of the APLMA held on 22.7.2014 are submitted herewith to the Government for necessary action in the matter.

Yours faithfully,  
Sd/- P.Lakshmi Narasimham,  
For Chief Commissioner.

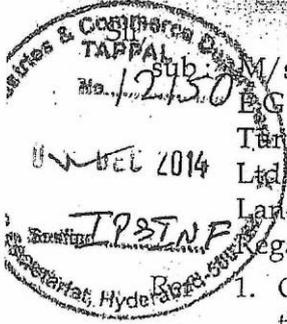
Copy to the Collector, East Godavari District.

GOVERNMENT OF ANDHRA PRADESH  
COMMISSIONERATE OF INDUSTRIES :: HYDERABAD

From  
The Commissioner of Industries,  
Government of Andhra Pradesh,  
Chirag Ali Lane, Abids,  
Hyderabad.

To  
The Principal Secretary to Government,  
Industries and Commerce Department,  
Government of Andhra Pradesh,  
Secretariat, Hyderabad..

Lr. No. 29/1/2014/14744 dated: 29/11/2014



M/s. International Paper Mills Ltd., (AP Paper Mills Ltd.) Rajahmundry, E.G District - Renewal of the lease of Lanka land of Acs. 612.71Cts at Turpulanka and sand shoals in River Godavari in favour of AP Paper Mills Ltd, for a further period - Genuineness of the requirement of Government Land and Justification report in Annexure-XI -Remarks - Submitted - Regarding.

1. Government Memo No. 9098/IP&INF/A3/2014, Dated 26/09/2014 of the Deputy Secretary to Government, Industries and Commerce department.
2. Lr. No. 862/A1/2012, Dated 07/11/2014 of the General Manager, District Industries Centre, Kakinada, East Godavari District.

&&&&&

In the reference 1<sup>st</sup> cited, the Deputy Secretary to Government, Industries and Commerce department has forwarded the proposal of M/s. International Paper Mills Ltd., (AP Paper Mills Ltd.) Rajahmundry, E.G District and requested to place the matter before the sub-committee and examine the extent of requirement of the land, period of lease to be granted further to the said company apart from treating the already expired period from 1-7-1999 to 30-6-2009 as lease period, in terms of the Land Allotment Policy issued in G.O. Ms. No. 571 Revenue (Assn-I) Department, dated 14/09/2012.

In the 2<sup>nd</sup> reference cited, the General Manager, District Industries Centre, Kakinada, East Godavari District has informed that he has inspected the site along with Deputy Director (Credit) of his office and found that the unit is working satisfactorily and collected the following information from the units.

1. Details of lease rent paid by the company with evidence from July, 1999 to June, 2015 with supporting documents.
2. IT returns for the last three years i.e., from 2011-12 to 2013-14.
3. Sketch of Turupulanka lands.
4. Letter from Min. of Env. & Forests, Govt. of India.
5. Valid CFO from APPCB.

Further, the GM is informed that the said land of extent Ac.612.71 cents in the Village Turpulanka and sand shoals in the River Godavari is already being utilized by the unit A.P. Paper Mills for discharge of treated Industrial effluents since 1969 and the lease proposal of the above said lands has been further extended up to

30/06/1999 through various Government orders. The unit has paid lease rent as fixed vide G.O Ms.No.810 till 30/06/2015 and recommended for renewal of the lease from 1999 to 2009 and for a further period of 33 years in favour of the unit as per the recommendation of APLMA.

Therefore it is recommended to Government to consider the request of the unit for renewal of lease period from 1999 to 2009 and for further period of 33 years as per the recommendation of the APLMA at 10 % of present market value as lease amount with provision for enhancement of lease amount in a block period of 5 years.

Sd/- Rajat Kumar,  
Commissioner of Industries.

// Attested //

  
Joint Director (INF)



Amruth - 3

Ref.(B)35/2016, dated 18.03.2023.

Tahsildar's Office,  
Rajamahendravaram Urban.

From:  
Sri V.Suswagatham,  
Tahsildar,  
Rajamahendravaram Urban.

To  
The Vice President (Operations),  
& Mill Manager, Andhra Paper Ltd.,  
Rajamahendravaram.

Sir,

Sub: Lease - Rajamahendravaram Urban Mandal - Request to provide boat for Survey team - Renewal of Lanka Land measuring an extent of Ac.612.71cts lease to APPM, Rajamahendravaram - Regarding.

Ref: Instructions of the Revenue Divisional Officer,  
Rajamahendravaram, dated 03.2023.

@@@

I Invite your attention to the reference cited, wherein the Revenue Divisional Officer, Rajamahendravaram has directed to furnish Renewal of Lanka Land measuring an extent of Ac.612.71cts lease to APPM, Rajamahendravaram.

In this connection, It is hereby requested provide a boat for Survey team to survey the Lanka land proposed for lease to APPM, Rajamahendravaram on 20.03.2023.

Yours faithfully,

Tahsildar,  
Rajamahendravaram Urban.

Copy submitted to the Revenue Divisional Officer, Rajamahendravaram for favour of information.

Copy submitted to the Collector, East Godavari District, Rajamahendravaram for favour of information.



Date: 24.06.2024

Lr.No : APL/ENV/2024/06-656

The Hon'ble District Collector & Magistrate  
East Godavari District,  
Rajamahendravaram.

**Subject: Andhra Paper Limited, Rajamahendravaram - Turupulanka Island Land Lease –  
Renewal request follow up No. 13 & request to issue Interim letter – Reg...**

**REF : As stated hereinafter**

- 1) APIIC Lr.No : PM/KPU/APIIC/101/97, dt.21.02.2014
- 2) Revenue Department Lr.No : Assign-II(2)/990/2008, dt.14.08.2014
- 3) Commissionerate of Industries Lr.No: 29/1/2014/14744, dt.29.11.2014
- 4) APPCB Directions to Andhra Paper Limited under various orders.
- 5) APL letter no: APL/ENV/2023/07-574, dated 29.07.2023.
- 6) **APL letter no: APL/ENV/2023/09-582, dated 16.09.2023.**
- 7) **Meeting with Hon'ble District Collector by Our Executive Director on 26.09.2023**
- 8) APL letter no: APL/ENV/2023/10-589, dated 16.10.2023 Follow Up letter – 2
- 9) APL letter no: APL/ENV/2023/11-596, dated 20.11.2023 Follow Up letter – 3
- 10) APL letter no: APL/ENV/2023/12-604, dated 06.12.2023 Follow Up letter – 4
- 11) APL letter No: APL/ENV/2024/01-614, dated 02.01.2024 Follow Up letter - 5
- 12) APL letter dated 02.01.2023 addressed to MRO regarding land survey initiatives
- 13) APL letter No: APL/ENV/2024/01-617, dated 11.01.2024 Follow Up letter – 6
- 14) APL letter No: APL/ENV/2024/01-623, dated 23.01.2024 Follow Up letter - 7
- 15) APL letter No: APL/ENV/2024/02-624, dated 03.02.2024 Follow Up letter - 8
- 16) APL letter No: APL/ENV/2024/02-629, dated 19.02.2024 Follow Up letter – 9
- 17) APL letter No: APL/ENV/2024/03-630, dated 07.03.2024 Follow Up letter – 10
- 18) **APPCB Direction order:617/APPCB/HO/ECS/KKD/2019, dt.15.03.2024 under point no: 1**
- 19) APL letter No: APL/ENV/2024/03-631, dated 22.03.2024 Follow Up letter – 11
- 20) APL letter No: APL/ENV/2024/05-652, dated 23.05.2024 Follow Up letter – 12

**Respected Madam**

Your kind attention is invited to the references cited above.

In continuation to our office letter no: APL/ENV/2023/07-574 dated 29.07.2023 and further follow-up letters nos. 1,2,3,4,5,6,7,8,9,10,11 & 12 cited above **and APPCB direction under reference no.18**, once again we would like to bring to your kind notice that:

Earlier, the Government have issued orders vide G.O.Ms.No : 810 Revenue (Assignment.I) Department , dated : 04.08.1992 granted lease in an extent of Ac.612.71 cents situated in

### **ANDHRA PAPER LIMITED**

(Corporate Identity Number: L21010AP1964PLC001008)

Regd. Office: Rajamahendravaram – 533 105, East Godavari District, India. Tel: +91-883-2471831

Corp. Office: 31, Chowringhee Road, Park

Street, Kolkata – 700 016, India. Tel: +91-33-71500500

Website: [www.andhrpaper.com](http://www.andhrpaper.com); Email: [info@andhrpaper.com](mailto:info@andhrpaper.com)

An ISO 9001:2015, ISO 14001: 2015, ISO 45001: 2018 and FSC® Certified Company  
(FSC® - C084811, FSC® - C119477 & FSC® - C112308)



Turupulanka sand shoals in the River Godavari vide survey no's 52, 53, 85 and Long strip on the border of Lanka No. 85 and 85.A and 54 to Andhra Paper Limited, Rajamahendravarm for discharge of its treated effluents for a period of 10 years with effect from 01.07.1989 at the rate of Rs.300/- per acre per annum. The said lease rental amount works out to Rs.1,83,813/- per annum for which Andhra Paper is being paid without fail every year and the company is in continuous possession and enjoyment of the said land for its operations since 1969.

Andhra Paper Limited approached Government for necessary renewals on long-term basis as Andhra Paper is an established industry and running successfully. We would like to submit the current status of renewal with the government:

- 1) **The APLMA has recommended** the proposal to the Government for renewal of lease **from 1999 to till 2009 and for a further period of 33 years** in favour of Andhra Paper as per reference cited no.2
- 2) **Further Commissioner of Industries also recommended** the proposal to the Industries & Commerce Department for renewal of lease from 1999 to till 2009 and for a further period of 33 years in favour of Andhra Paper as per reference cited no.3 with direction to fix revised lease rentals as per prevailing policies of Government.
- 3) **Committee headed by Sub- Collector inspected Turupulanka on 28.09.2016** for fixation of lease amount as per directions of the then Hon'ble District Collector.
- 4) **Subsequently, Turupulanka land survey conducted by Office of The Tahsildar – Rajamahendravarm Urban on 20.03.2023**, as per Hon'ble District Collector directions and we came to understand that, the said report had been submitted to District Collector's office.
- 5) Your good office is also aware of the matter as our Executive Director brought it to your kind notice several times during personal meetings.
- 6) **On 26.02.2024, APPCB monitoring committee chaired by Member Secretary reviewed the status of Turupulanka Lease and directed to get renewal order before 25th Mar 2024 otherwise to stop discharge of effluent in Turupulanka lands, which in turn impacts operation of the industry & will result into closure.**
- 7) **Directions from APPCB Member Secretary under cited reference no.18, we need the renewal of our Land Lease agreement (or) if it is not possible immediately, we seek one letter from Hon'ble District Collector's Office stating that, the subject matter is under process. The similar letter was issued to the company by the then Hon'ble Collector earlier in 2016.**

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(FSC® - C084811, FSC® - C119477 & FSC® - C112308)



**Further we would like to bring to your kind notice that:**

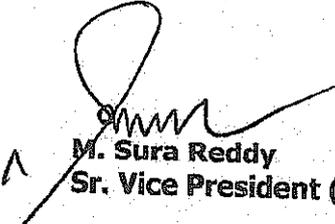
- 1) We came to know that the revenue department officials having jurisdiction over the said land have started enquiring about the land and began to survey for providing land to weaker sections for the purpose of cultivation under the government initiative.
- 2) As the land mentioned in the above survey numbers belongs to the company as a continuous leaseholder, please direct concerned department officials to serve notice before conducting the survey so that our company officials will accommodate the revenue department during the survey to clear any ambiguity and to avoid overlap of the Survey numbers or the incorrect allotment of leased land belonging to the Company to weaker sections.
- 3) In this regard, Andhra Paper request your good office to properly verify the Survey numbers identifying with the land before proceeding with the allotment to weaker sections to rule out any overlapping of Survey numbers.

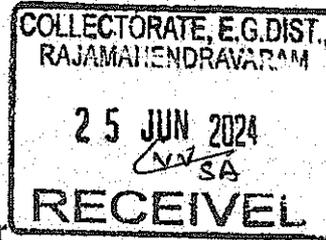
**Your kind intervention and support to obtain Renewal Order of Turupulanka Lease is requested.**

Thanking you

Yours Sincerely

Andhra Paper Limited – Unit Rajamahendravaram

  
M. Sura Reddy  
Sr. Vice President (Operations) & Factory Manager



10:59 AM

- CC:
1. Member Secretary – APPCB, Board Office – For Kind Information
  2. Environmental Engineer – APPCB, Regional – For information
  3. The Principal Secretary - Commerce & Industries
  4. The Commissioner of Industries
  5. The Chief Commissioner of Land Administration

**ANDHRA PAPER LIMITED**

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# SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

Corporate Office & Laboratory : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012.  
Hyderabad: Flat No. 302, H.No. 7-1-396/B/12, Sai Ram Residency, Balkampet Road, S.R.Nagar, Hyderabad-500038.  
☎ +91-9440338628, +91-7207664444 ✉ svenviro\_labs@yahoo.co.in, info@svenviro.com www.svenviro.com  
Recognized by Govt. of India-MoEF & CG, New Delhi, Accredited by : NABL & NABET



Ref: SVELC/APML/24-05/10

Date: 06-06-2024

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Recovery Boiler -4

DATE & TIME OF COLLECTION : 28-05-2024 @ 11:00 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	90
2.	Diameter of Stack	m	3.5
3.	Cross Section Area of Stack	m <sup>2</sup>	9.61
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	155
6.	Flue Gas Velocity	m/sec	9.6
7.	Flow Rate	Nm <sup>3</sup> /hr	229722
8.	Duration of Sampling	minutes	30

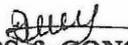
## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	37.0	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	93.5	<600	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	175	<300	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.2	--	USEPA Method-11
4.	Mercury	mg/Nm <sup>3</sup>	<0.005	<0.03	USEPA Method-29

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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Recognized by Govt. of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET



Ref: SVELC/APML/24-05/09

Date: 06-06-2024

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Coal Fired Boiler - CF6

DATE & TIME OF COLLECTION : 28-05-2024 @ 10:15 hr

## TEST REPORT

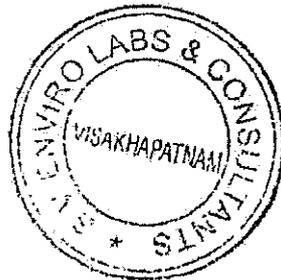
S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	85
2.	Diameter of Stack	m	2.5
3.	Cross Section Area of Stack	m <sup>2</sup>	4.90
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	154
6.	Flue Gas Velocity	m/sec	9.3
7.	Flow Rate	Nm <sup>3</sup> /hr	113737
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	39.1	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	83.6	<600	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	182	<300	IS: 11255-P-7
4.	Mercury	mg/Nm <sup>3</sup>	<0.005	<0.03	USEPA Method-29

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/24-06/10

Date: 05-07-2024

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Recovery Boiler -4

DATE & TIME OF COLLECTION : 26-06-2024 @ 10:45 hr

## TEST REPORT

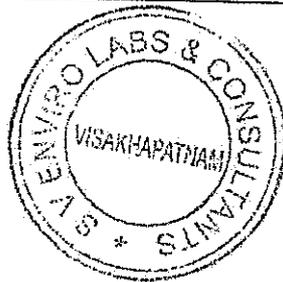
S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	90
2.	Diameter of Stack	m	3.5
3.	Cross Section Area of Stack	m <sup>2</sup>	9.61
4.	Temperature @ DGM	°C	32
5.	Stack temperature	°C	146
6.	Flue Gas Velocity	m/sec	10.2
7.	Flow Rate	Nm <sup>3</sup> /hr	249322
8.	Duration of Sampling	minutes	30

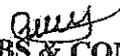
## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	43.8	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	86.1	<600	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	206	<300	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.52	--	USEPA Method-11
4.	Mercury	mg/Nm <sup>3</sup>	<0.005	<0.03	USEPA Method-29

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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SV ENVIRO LABS & CONSULTANTS



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Ref: SVELC/APML/24-06/09

Date: 05-07-2024

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Coal Fired Boiler - CF6

DATE & TIME OF COLLECTION : 26-06-2024 @ 10:00 hr

## TEST REPORT

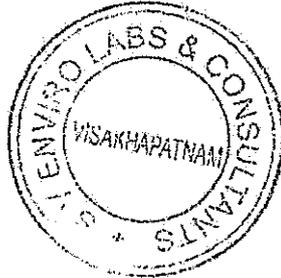
S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	85
2.	Diameter of Stack	m	2.5
3.	Cross Section Area of Stack	m <sup>2</sup>	4.90
4.	Temperature @ DGM	°C	31
5.	Stack temperature	°C	139
6.	Flue Gas Velocity	m/sec	9.58
7.	Flow Rate	Nm <sup>3</sup> /hr	121427
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	45.3	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	87.5	<600	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	199	<300	IS: 11255-P-7
4.	Mercury	mg/Nm <sup>3</sup>	<0.005	<0.03	USEPA Method-29

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

CHECKED BY



SV ENVIRO LABS & CONSULTANTS



ANDHRA PRADESH POLLUTION CONTROL BOARD  
ZONAL LABORATORY, VISAKHAPATNAM

D.No.39-33-20/4, Behind RTA Office, Madhavadhara VUDA Colony,  
Visakhapatnam – 530 018.

M. RAVI, M.Sc  
SENIOR ENVIRONMENTAL SCIENTIST

Ph :0891- 2719380/ 481  
e-mail:zovsplab-ses2@appcb.gov.in

Ameeuri - 16 34

FORM - IV  
REPORT BY THE STATE BOARD ANALYST  
[See Rule-14]

Report No. 2023 – 05 – ST – 002

Date:09.05.2023

I hereby certify that I M. Ravi (I) State Board Analyst duly appointed under sub-section (3) of Section 26 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack emission sample of M/s Andhra Paper Ltd., (Unit: Sriramnagar), Rajamahendravaram, East Godavari District from the Stack attached to 1 X 1300 TPD Recovery Boiler collected on 02.05.2023 and received on the day of 03.05.2023 from Junior Scientific Officer, Regional Office, Kakinada for analysis.

The sample was in a condition fit for analysis as reported below:

I further certify that I have analyzed the above mentioned sample from 03.05.2023 to 09.05.2023 and declare the result of the analysis to be as follows: -

S.No.	Sample No.	Parameters	Value ( $\mu\text{g}/\text{Nm}^3$ )	Standard ( $\text{mg}/\text{Nm}^3$ )
1.	2023-05-ST-002	Particulate Matter (PM)	40.4	50.0

The condition of the seals, fastening and container on receipt was intact.  
The results related to sample tested.

**Remarks of monitoring officials:**

1. During Stack monitoring Recovery Boiler is in operation.
- 2.ESP 3 No.s provided as air pollution control equipment is in operation during stack monitoring.

Signed this:09.05.2023.

Address:  
M. Ravi,  
Senior Environmental Scientist,  
Zonal Laboratory,  
APPCB, Visakhapatnam

  
SIGNATURE OF THE STATE BOARD ANALYST



**ANDHRA PRADESH POLLUTION CONTROL BOARD  
ZONAL LABORATORY, VISAKHAPATNAM**

D.No.39-33-20/4, Behind RTA Office, Madhavadhara VUDA Colony,  
Visakhapatnam – 530 018.

M. RAVI, M.Sc  
SENIOR ENVIRONMENTAL SCIENTIST

Ph :0891- 2719380/ 481  
e-mail:zovsplab-ses2@appcb.gov.in

**FORM - IV**  
**REPORT BY THE STATE BOARD ANALYST**  
**[See Rule-14]**

**Report No. 2023 – 05 – ST – 001**

**Date:09.05.2023**

I hereby certify that I M. Ravi (I) State Board Analyst duly appointed under sub-section (3) of Section 26 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack emission sample of M/s Andhra Paper Ltd., (Unit: Sriramnagar), Rajamahendravaram, East Godavari District from the Stack attached to 1 X 105 TPH Coal Fired Boiler along with 34MW Turbine collected on 02.05.2023 and received on the day of 03.05.2023 from Junior Scientific Officer, Regional Office, Kakinada for analysis.

The sample was in a condition fit for analysis as reported below:

I further certify that I have analyzed the above mentioned sample from 03.05.2023 to 09.05.2023 and declare the result of the analysis to be as follows: -

S.No.	Sample No.	Parameters	Value (mg/Nm <sup>3</sup> )	Standard (mg/Nm <sup>3</sup> )
1.	2023-05-ST-001	Particulate Matter (PM)	38.7	50.0

The condition of the seals, fastening and container on receipt was intact.  
The results related to sample tested.

**Remarks of monitoring officials:**

1. During Stack monitoring, boiler is operating with 90TPH Capacity.
2. ESP is provided as air pollution control equipment is in operation during stack monitoring.

Signed this:09.05.2023.

Address:

M. Ravi,  
Senior Environmental Scientist,  
Zonal Laboratory,  
APPCB, Visakhapatnam

  
SIGNATURE OF THE STATE BOARD ANALYST



# Glens Innovation Labs Pvt Ltd.

NABL Accredited as per ISO17025:2017, Certified as per ISO 9001:2015 & ISO 45001:2018

## TEST REPORT

Report No. : EN23120396

Name of the Client : Andhra Paper Limited  
 Address of the Client : Rajamahendravaram Mill Sriram Nagar Rajamahendravaram, East Godavari 533105  
 Sample Name : Stack Emission Sampling Date : 12-Dec-2023  
 Sample Description : Stack Emisison Received Date : 15-Dec-2023  
 Sampling Location : Recovery Boiler Commenced On : 15-Dec-2023  
 Sample Submission Type : Collected by Lab Representative Completed On : 22-Dec-2023  
 Sample Condition : Good Report Date : 26-Dec-2023  
 Sampling Plan and Method : GL/EN/SOP/111



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Particulate Matter	mg/Nm <sup>3</sup>	44.0	GL/EN/SOP/113	50

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

\*\*\*End of Report\*\*\*

Verified By

Authorized Signature

E. PRITHIVIRAJAN  
LAB MANAGER

#### Terms and Conditions:

- \* The test results related only to the items tested.
- \* The test report shall not be reproduced in full or part without the written approval of Glens.
- \* The test items will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations.
- \* The Laboratory's responsibility under this report is limited to proven wilful negligence and will in no case be more than the invoiced amount.
- \* A Satisfactory test report in no way implies that the product tested is approved by NABL.
- \* Laboratory is not responsible for the authenticity of the photocopied test reports.



# Glens Innovation Labs Pvt Ltd.

NABL Accredited as per ISO17025:2017, Certified as per ISO 9001:2015 & ISO 45001:2018

## TEST REPORT

Report No. : EN23120393

Name of the Client : Andhra Paper Limited  
 Address of the Client : Rajamahendravaram Mill Sriram Nagar Rajamahendravaram, East Godavari 533105  
 Sample Name : Stack Emission Sampling Date : 14-Dec-2023  
 Sample Description : Stack Emission Received Date : 15-Dec-2023  
 Sampling Location : Coal Fired Boiler S1 Commenced On : 15-Dec-2023  
 Sample Submission Type : Collected by Lab Representative Completed On : 22-Dec-2023  
 Sample Condition : Good Report Date : 26-Dec-2023  
 Sampling Plan and Method : GL/EN/SOP/111



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Particulate Matter	mg/Nm3	47.20	GL/EN/SOP/113	50

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

\*\*\*End of Report\*\*\*

Verified By

Authorized Signature  
E. PRITHIVIRAJAN  
LAB MANAGER

GLENS INNOVATION LABS Pvt Ltd, #6/1, 1st Floor, Sri Jothi Complex Mungagan Street, Rajamahendravaram Nagar, Arunthakani Chennai 600105

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# Glens Innovation Labs Pvt Ltd.

NABL Accredited as per ISO17025:2017, Certified as per ISO 9001:2015 & ISO 45001:2018

## TEST REPORT

Name of the Client : Andhra Paper Limited  
 Address of the Client : Rajamahendravaram Mill Sriram Nagar Rajamahendravaram, East Godavari 533105  
 Sample Name : Stack Emission Sampling Date : 12-Dec-2023  
 Sample Description : Stack Emission Received Date : 15-Dec-2023  
 Sampling Location : Kiln 2 Commenced On : 15-Dec-2023  
 Sample Submission Type : Collected by Lab Representative Completed On : 22-Dec-2023  
 Sample Condition : Good Report Date : 26-Dec-2023  
 Sampling Plan and Method : GL/EN/SOP/111

Report No. : EN23120398



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Hydrogen Sulphide as H <sub>2</sub> S	mg/Nm <sup>3</sup>	7.20	IS 11255 (Part 4):2006	10
2	Particulate Matter	mg/Nm <sup>3</sup>	35.0	GL/EN/SOP/111	50

Note: - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

\*\*\*End of Report\*\*\*

  
Verified By

  
Authorized Signature

E. PRITHIVIRAJAN  
LAB MANAGER

GLENS INNOVATION LABS PVT LTD, #2/3, 1st Floor, Sri Jyothi Complex Murugesan Street, Balevaynagar Nagar, Arumbikam Chennai 600106

#### Terms and Conditions:

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# Glens Innovation Labs Pvt Ltd.

NABL Accredited as per ISO17025:2017, Certified as per ISO 9001:2015 & ISO 45001:2018

## TEST REPORT

Report No. : EN23120397

Name of the Client : Andhra Paper Limited  
 Address of the Client : Rajamahendravaram Mill Sriram Nagar Rajamahendravaram, East Godavari 533105  
 Sample Name : Stack Emission Sampling Date : 14-Dec-2023  
 Sample Description : Stack Emission Received Date : 15-Dec-2023  
 Sampling Location : Kiln 1 Commenced On : 15-Dec-2023  
 Sample Submission Type : Collected by Lab Representative Completed On : 22-Dec-2023  
 Sample Condition : Good Report Date : 26-Dec-2023  
 Sampling Plan and Method : GL/EN/SOP/111



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Hydrogen Sulphide as H <sub>2</sub> S	mg/Nm <sup>3</sup>	8.0	IS 11255 (Part 4):2006	10
2	Particulate Matter	mg/Nm <sup>3</sup>	32.0	GL/ EN/SOP/113	50

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

\*\*\*End of Report\*\*\*

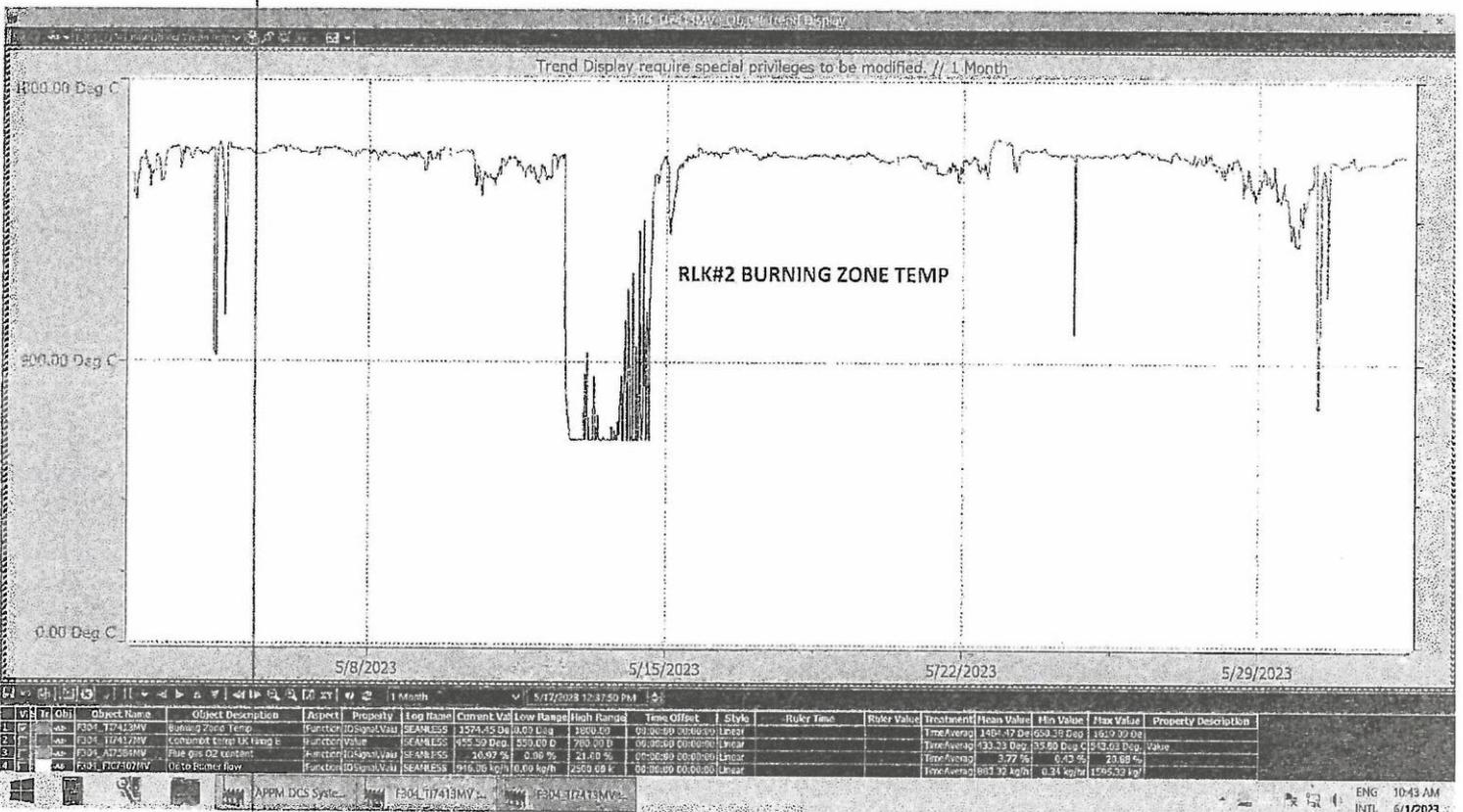
Verified By

Authorized Signature  
E. PRITHVIRAJAN  
LAB MANAGER

GLENS INNOVATION LABS PVT LTD, #5/1, 1st Floor, Sri Jyoti Complex Murugesan Street, Beharavayal Nagar, Anumbatlam Chennai 600105

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Obj	Object Name	Object Description	Aspect	Property	Log Itase	Current Val	Low Range	High Range	Time Offset	Style	Ruler Time	Ruler Value	Treatment	Mean Value	Min Value	Max Value	Property Description
1	F304.T17413MV	Baking Zone Temp	Function	Signal/Val	SEANLESS	1574.45 Deg	1000.00 Deg	1800.00 Deg	00:00:00 00:00:00	Linear			Time Average	140.47 Deg	654.38 Deg	1819.32 Deg	
2	F304.T17412HV	Combust temp tk firing b	Function	Value	SEANLESS	455.59 Deg	550.00 Deg	780.00 Deg	00:00:00 00:00:00	Linear			Time Average	133.23 Deg	135.80 Deg	542.03 Deg	Value
3	F304.F30258HV	Flue gas O2 content	Function	Signal/Val	SEANLESS	16.97 %	0.00 %	21.00 %	00:00:00 00:00:00	Linear			Time Average	3.77 %	6.43 %	20.88 %	
4	F304.F30210HV	Out to boiler flow	Function	Signal/Val	SEANLESS	1916.30 kg/hr	0.00 kg/hr	2300.00 kg/hr	00:00:00 00:00:00	Linear			Time Average	943.32 kg/hr	0.31 kg/hr	1595.33 kg/hr	





ANDHRA PRADESH POLLUTION CONTROL BOARD  
ZONAL LABORATORY, VISAKHAPATNAM

D.No.39-33-20/4, Behind RTA Office, Madhavadhara VUDA Colony,  
Visakhapatnam – 530 018.

M. RAVI, M.Sc  
SENIOR ENVIRONMENTAL SCIENTIST

Ph :0891- 2719380/ 481  
e-mail:zovsplab-ses2@appcb.gov.in

Ammeur - 9 42

FORM - IV  
REPORT BY THE STATE BOARD ANALYST  
[See Rule-14]

Report No. 2023 – 05 – ST – 003

Date:09.05.2023

I hereby certify that I M. Ravi (I) State Board Analyst duly appointed under sub-section (3) of Section 26 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack emission sample of M/s Andhra Paper Ltd., (Unit: Sriramnagar), Rajamahendravaram, East Godavari District from the Stack attached to 1 X 100 TPD Rotary Lime Kiln-1 collected on 02.05.2023 and received on the day of 03.05.2023 from Junior Scientific Officer, Regional Office, Kakinada for analysis.

The sample was in a condition fit for analysis as reported below:

I further certify that I have analyzed the above mentioned sample from 03.05.2023 to 09.05.2023 and declare the result of the analysis to be as follows: -

S.No.	Sample No.	Parameters	Value (mg/Nm <sup>3</sup> )	Standard (mg/Nm <sup>3</sup> )
1.	2023-05-ST-003	Particulate Matter (PM)	25.1	50.0
		H <sub>2</sub> S	7.0	10.0

The condition of the seals, fastening and container on receipt was intact.  
The results related to sample tested.

**Remarks of monitoring officials:**

1. During Stack monitoring Rotary Lime Kiln-1 is in operation.
2. ESP is provided as air pollution control equipment and is in operation during stack monitoring.

Signed this:09.05.2023.

Address:  
M. Ravi,  
Senior Environmental Scientist,  
Zonal Laboratory,  
APPCB, Visakhapatnam

  
SIGNATURE OF THE STATE BOARD ANALYST



**ANDHRA PRADESH POLLUTION CONTROL BOARD  
ZONAL LABORATORY, VISAKHAPATNAM**

D.No.39-33-20/4, Behind RTA Office, Madhavadhara VUDA Colony,  
Visakhapatnam – 530 018.

M. RAVI, M.Sc  
SENIOR ENVIRONMENTAL SCIENTIST

Ph :0891- 2719380/ 481  
e-mail:zovsplab-ses2@appcb.gov.in

**FORM – IV  
REPORT BY THE STATE BOARD ANALYST  
[See Rule-14]**

**Report No. 2023 – 05 – ST – 004**

**Date:09.05.2023**

I hereby certify that I M. Ravi (I) State Board Analyst duly appointed under sub-section (3) of Section 26 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack emission sample of M/s Andhra Paper Ltd., (Unit: Sriramnagar), Rajamahendravaram, East Godavari District from the Stack attached to 1 X 160 TPD Rotary Lime Kiln-2 collected on 02.05.2023 and received on the day of 03.05.2023 from Junior Scientific Officer, Regional Office, Kakinada for analysis.

The sample was in a condition fit for analysis as reported below:

I further certify that I have analyzed the above mentioned sample from 03.05.2023 to 09.05.2023 and declare the result of the analysis to be as follows: -

S.No.	Sample No.	Parameters	Value (mg/Nm <sup>3</sup> )	Standard (mg/Nm <sup>3</sup> )
1.	2023-05-ST-004	Particulate Matter (PM)	21.4	50.0
		H <sub>2</sub> S	6.8	10.0

The condition of the seals, fastening and container on receipt was intact.  
The results related to sample tested.

**Remarks of monitoring officials:**

1. During Stack monitoring Rotary Lime Kiln-2 is in operation
2. ESP is provided as air pollution control equipment and is in operation during stack monitoring.

Signed this:09.05.2023.

Address:  
M. Ravi,  
Senior Environmental Scientist,  
Zonal Laboratory,  
APPCB, Visakhapatnam

  
SIGNATURE OF THE STATE BOARD ANALYST



# Glens Innovation Labs Pvt Ltd.

NABL ACCREDITED AS PER ISO/IEC 17025 : 2017, CERTIFIED AS PER ISO 9001:2015 & ISO 45001 : 2018

## TEST REPORT

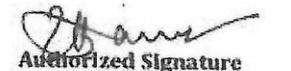
Report No : EN23070162 Report Date : 14 Jul 2023  
 Customer Name : M/S.Andhra Paper Limited  
 Customer Address : Rajamahendravaram,East Godavari Dist,Andhra Pradesh-533105  
 Sample Description : Stack Emission  
 Sample No : EN23070162  
 Sample Identification : Rotary Line Kiln Stack-01 Sampling Date : 07 Jul 2023  
 Sample Condition : Good Sample Received on : 08 Jul 2023  
 Sampling Procedure : GL/EN/SOP/111 Test Started on : 08 Jul 2023  
 Instrument Used : Optima Analyzer Test Completed on : 14 Jul 2023  
 Sample Submission type : Lab Representative

### Test result

S.No	Test Name	Test Method	Results	Units
Discipline: Chemical				
Group: Atmospheric Pollution				
1	Hydrogen Sulphide as H2S	IS 11255 (Part 4): 2006	9.1	mg/m <sup>3</sup>
2	Particulate Matter	GL/ EN/SOP/113 (EPA 5): 1991	45.7	mg/Nm <sup>3</sup>

.....End of Report.....  
Page 1 of 1

  
Verified By

  
Authorized Signature  
S. HARIHARASUDHAN  
ASSISTANT MANAGER

GLENS INNOVATION LABS Pvt Ltd, #0/1.1 St Floor, Sri Juthi Complex Murugesan Street, Balavinayagar Nagar, Arumbakkam Chennai 600106

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# Glens Innovation Labs Pvt Ltd,

NABL ACCREDITED AS PER ISO/IEC 17025 : 2017, CERTIFIED AS PER ISO 9001:2015 & ISO 45001 : 2018

## TEST REPORT

Report No : EN23070161 Report Date : 14 Jul 2023  
 Customer Name : M/S.Andhra Paper Limited  
 Customer Address : Rajamahendravaram, East Godavari Dist, Andhra Pradesh-533105  
 Sample Description : Stack Emission  
 Sample No : EN23070161  
 Sample Identification : Rotary Line Kith Stack-02 Sampling Date : 07 Jul 2023  
 Sample Condition : Good Sample Received on : 08 Jul 2023  
 Sampling Procedure : GL/EN/SOP/111 Test Started on : 08 Jul 2023  
 Instrument Used : Optima Analyzer Test Completed on : 14 Jul 2023  
 Sample Submission type : Lab Representative

### Test result

S.No	Test Name	Test Method	Results	Units
Discipline: Chemical				
Group: Atmospheric Pollution				
1	Hydrogen Sulphide as H <sub>2</sub> S	IS 11255 (Part 4): 2006	8.4	mg/m <sup>3</sup>
2	Particulate Matter	GL/ EN/SOP/113 (EPA 5): 1991	14.5	mg/Nm <sup>3</sup>

.....End of Report.....  
Page 1 of 1

Verified By

Authorized Signature  
S. HARIHARASUDHAN  
ASSISTANT MANAGER

GLENS INNOVATION LABS PVT.LTD, #6/ L1 St Floor, Sri Jothi Complex Murugesan Street, Balwinayagar Nagar, Arundhakkam Chennai 600 016

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# SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

Corporate Office & Laboratory : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012.  
Hyderabad: Flat No. 302, H.No. 7-1-396/B/12, Sai Ram Residency, Balkampet Road, S.R.Nagar, Hyderabad-500038.  
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46

Ref: SVELC/APML/24-05/12

Date: 06-06-2024

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-2

DATE & TIME OF COLLECTION : 28-05-2024 @ 13:00 hr

## TEST REPORT

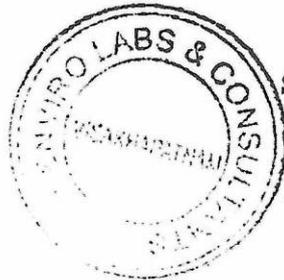
S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	130
6.	Flue Gas Velocity	m/sec	8.9
7.	Flow Rate	Nm <sup>3</sup> /hr	26595
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	39.6	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	64.2	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	210	<500	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.7	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

CHECKED BY 



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Ref: SVELC/APML/24-05/11

Date: 06-06-2024

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-1

DATE & TIME OF COLLECTION : 28-05-2024@ 12:15 hr

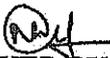
## TEST REPORT

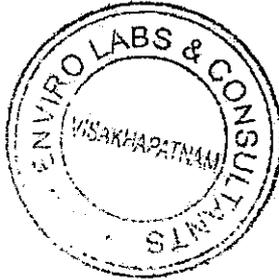
S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	137
6.	Flue Gas Velocity	m/sec	9.0
7.	Flow Rate	Nm <sup>3</sup> /hr	26435
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	44.1	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	85.4	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	265	<500	IS:11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.3	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

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SV ENVIRO LABS & CONSULTANTS 



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(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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Ref: SVELC/APML/24-06/12

Date: 05-07-2024

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-2

DATE & TIME OF COLLECTION : 26-06-2024 @ 12:15 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	30
5.	Stack temperature	°C	118
6.	Flue Gas Velocity	m/sec	8.14
7.	Flow Rate	Nm <sup>3</sup> /hr	25071
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	36.4	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	58.7	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	193	<500	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.12	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/24-06/11

Date: 05-07-2024

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-1

DATE & TIME OF COLLECTION : 26-06-2024@ 11:30 hr

### TEST REPORT

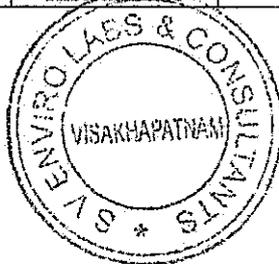
S.No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	31
5.	Stack temperature	°C	129
6.	Flue Gas Velocity	m/sec	8.73
7.	Flow Rate	Nm <sup>3</sup> /hr	26153
8.	Duration of Sampling	minutes	30

### EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	41.7	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	76.3	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	229	<500	IS:11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	3.98	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

CHECKED BY 



SV ENVIRO LABS & CONSULTANTS 

Amravar - 12



# SWAN ENVIRONMENTAL PVT. LTD.,

(ISO 9001 : 2015 CERTIFIED)

Plot. No. 922 & 935, Swami Ayyappa Co-Op Society, Madhapur, Hyderabad - 500 081, Telangana, India.

Phone: +91-40-40216184/85, Fax: +91-40-40216183.

Email : info@swanenviron.com Website : www.swanenviron.com

## CALIBRATION CERTIFICATE

Certificate No: SEPL/CEMS/APL/2023/0303 Date of Issue : 06-12-2023

Customer : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

Station name : RB4 Stack

### Instrument Details:

Instrument : Online Stack Dust (SPM) Monitor Date of Calibration : 30-11-2023  
 Make : Mip OY, Finland Due Date : 29-02-2024  
 Model : LM3189.  
 Serial No. : 3189065

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20.0 %	20.2%	0.99%

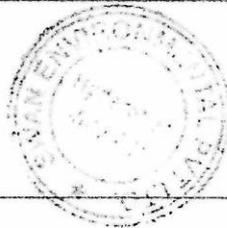
Accepted Tolerance:  $\pm 2\%$

Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated by:

*P. Rajesh*

Mr.P.Rajesh  
Engineer Service



Reviewed by:

*PN Mahadev*

Mr.PN Mahadev  
Sr.Sales & Service Engineer



# SWAN ENVIRONMENTAL PVT. LTD.,

(ISO 9001 : 2015 CERTIFIED)

Plot No 922 & 935, Swami Ayyappa Co-Op Society, Madhapur, Hyderabad - 500 081, Telangana, India.

Phone: +91-40-40216184/85, Fax: +91-40-40216183.

Email : info@swanenviron.com Website : www.swanenviron.com

## CALIBRATION CERTIFICATE

Certificate No: SEPL/CEMS/APL/2023/0304 Date of Issue : 06-12-2023

Customer : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

Station name : CFB6 Stack

### Instrument Details:

Instrument : Online Stack Dust (SPM) Monitor Date of Calibration : 30-11-2023  
 Make : Mip OY, Finland Due Date : 28-02-2024  
 Model : LM3189.  
 Serial No. : 3189041.

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20.0 %	20.28%	1.4%

Accepted Tolerance:  $\pm 2\%$

Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated by:

*P. Rajesh*  
 Mr.P.Rajesh  
 Engineer Service



Reviewed by:

*PN Mahadev*  
 Mr.PN Mahadev  
 Sr.Sales & Service Engineer



# SWAN ENVIRONMENTAL PVT. LTD.,

(ISO 9001 : 2015 CERTIFIED)

Plot No 922 & 935, Swami Ayyappa Co-Op Society, Madhapur, Hyderabad - 500 081, Telangana, India

Phone: +91-40-40216184/85, Fax: +91-40-40216183.

Email : info@swanenviron.com Website : www.swanenviron.com

## CALIBRATION CERTIFICATE

Certificate No: SEPL/CEMS/APL/2023/0301 Date of Issue : 06-12-2023

Customer : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

Station name : RLK-1 Stack

### Instrument Details:

Instrument : Online Stack Dust (SPM) Monitor Date of Calibration: 30-11-2023  
 Make : EMS Instrument Due Date : 29-02-2024  
 Model : L2400  
 Serial No. : M162422

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20 %	20.05%	0.25%

Accepted Tolerance:  $\pm 2$  %

Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated by:

*P. Rajesh*

Mr.P.Rajesh  
Engineer Service



Reviewed by:

*PN Mahadev*

Mr.PN Mahadev  
Sr.Sales & Service Engineer



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## CALIBRATION CERTIFICATE

Certificate No: SEPL/CEMS/APL/2023/0302

Date of Issue :06-12-2023

Customer : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

Station name : RLK-2Stack

### Instrument Details:

Instrument : Online Stack Dust (SPM) Monitor  
 Make : EMS Instrument  
 Model : L2400  
 Serial No. : M162423

Date of Calibration :30-11-2023  
 Due Date : 29-02-2024

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20 %	20.15%	0.74

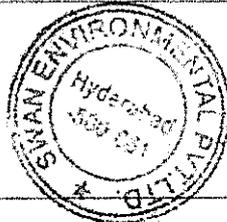
Accepted Tolerance:  $\pm 2$  %

Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated by:

*P. Rajesh*

Mr.P.Rajesh  
Engineer Service



Reviewed by:

*PN Mahadev*

Mr.PN Mahadev  
Sr.Sales & Service Engineer



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## CALIBRATION CERTIFICATE

**Certificate No:** SEPL/CEMS/APL/2024/0505 **Date of Issue** :29-05-2024

**Customer** : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

**Station name** : RLK-1 Stack

### Instrument Details:

**Instrument** : Online Stack Dust (SPM) Monitor **Date of Calibration** :27-05-2024  
**Make** : EMS Instrument **Due Date** :24-08-2024  
**Model** : L2400  
**Serial No.** : M162422

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20 %	20.05%	0.25%

**Accepted Tolerance:**  $\pm 2\%$

**Result:** The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated by:

*P. Rajesh*

Mr.P.Rajesh  
Engineer Service



Reviewed by:

*Mr. PN Mahadev*

Mr.PN Mahadev  
Sr.Sales & Service Engineer



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## CALIBRATION CERTIFICATE

**Certificate No:** SEPL/CEMS/APL/2024/0506

**Date of Issue** : 29-05-2024

**Customer** : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

**Station name** : RLK-2Stack

### Instrument Details:

**Instrument** : Online Stack Dust (SPM) Monitor

**Date of Calibration** : 27-05-2024

**Make** : EMS Instrument

**Due Date** : 24-08-2024

**Model** : L2400

**Serial No.** : M162423

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20 %	20.15%	0.74%

**Accepted Tolerance:**  $\pm 2\%$

**Result:** The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated by:

*P. Rajesh*

Mr.P.Rajesh  
Engineer Service



Reviewed by:

*PN Mahadev*

Mr.PN Mahadev  
Sr.Sales & Service Engineer



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## CALIBRATION CERTIFICATE

**Certificate No:** SEPL/CEMS/APL/2024/0507 **Date of Issue** :29-05-2024

**Customer** : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

**Station name** : RB4 Stack

### Instrument Details:

**Instrument** : Online Stack Dust (SPM) Monitor **Date of Calibration** : 27-05-2024  
**Make** : Mip OY, Finland **Due Date** :24-08-2024  
**Model** : LM3189.  
**Serial No.** : 3189065

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

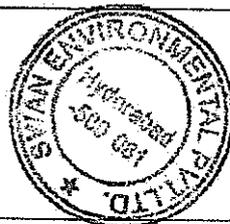
Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20.0 %	20.2%	0.99%

**Accepted Tolerance:**  $\pm 2 \%$

**Result:** The Calibration of above instrument is performed and it meets the acceptance criteria.

**Calibrated by:**

*P. Rajesh*  
**Mr.P.Rajesh**  
 Engineer Service



**Reviewed by:**

*PN Mahadev*  
**Mr.PN Mahadev**  
 Sr.Sales & Service Engineer



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## CALIBRATION CERTIFICATE

Certificate No: SEPL/CEMS/APL/2024/0508

Date of Issue :29-05-2024

Customer : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

Station name : CFB6 Stack

### Instrument Details:

Instrument : Online Stack Dust (SPM) Monitor

Date of Calibration :27-05-2024

Make : Mip OY, Finland

Due Date :24-08-2024

Model : LM3189.

Serial No. : 3189041.

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20.0 %	20.28%	1.4%

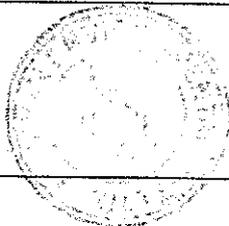
Accepted Tolerance:  $\pm 2\%$

Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated by:

*P. Rajesh*

Mr.P.Rajesh  
Engineer Service



Reviewed by:

*Maha*

Mr.PN Mahadev  
Sr.Sales & Service Engineer



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## CALIBRATION CERTIFICATE

Certificate No: SEPL/ETP/APL/2024/0614 Date of Issue : 29-05-2024

Customer : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

Station Name : EQMS

### Instrument Details:

Instrument : Online TOC Analyzer (TOC)

Date of Calibration : 24-05-2024

Make : Shimadzu Corporation, Japan

Due Date : 21-08-2024

Model : TOC-4200

Serial No : H66965830221

### Calibration Details:

Sl.No	Standard Value	Measured value	% of deviation
1	0 PPM ( Distilled water)	0 PPM	0 %
2	50 PPM(KHP)	49.8 PPM	0.4%
3	100 PPM(KHP)	102.1 PPM	2.09 %
4	250 PPM(KHP)	251.8 PPM	0.72%

KHP Means Potassium Hydrogen Pthalate,

### Accepted Criteria:

S.D. Limit: 300

Coefficient of Variation limit: 3.0%

Either S.D (or) C.V should be within the limit.

**Result:** The Calibration of above instrument is performed and it meets acceptance criteria.

Calibrated by:

*P. Rajesh*  
Mr.P.Rajesh  
Engineer- Service



Reviewed by:

*Maha*  
Mr.PN Mahadev  
Sr.Sales & Service Engineer



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Certificate No: SEPL/EQMS/APL/2024/0513

Date of Issue :29-05-2024

Customer : M/s. Andhra Paper Ltd., Rajammundry, East Godavari Dist., A.P.

Station Name : EQMS

## Instrument Details:

Instrument : SS Analyzer

Make : Daeyoon Scale.

Model : 413130002SS

Serial No. : SS220623036S

Date of Calibration: 24-05-2024

Due Date :21-08-2024

## Calibration Details of SS Analyzer:

Range	SS Analyzer value of Standard solution (mg/L (or) ppm)	Measured Value (mg/L (or) ppm)	% of Deviation
Auto	50	50.41	0.02 %
Auto	100	102.4	2.4%

Accepted Tolerance:  $\pm 5\%$

Result: The Calibration of above instrument is performed and it meets the allowed deviation.

Calibrated by:

*P. Rajesh*

Mr. P.Rajesh  
Engineer – Service



Reviewed by:

*PN Mahadev*

Mr.PN Mahadev  
Sr.Engineer – Sales & Service



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## CALIBRATION CERTIFICATE

Certificate No: SEPL/EQMS/APL/2024/0512.

Date of Issue : 29-05-2024

Customer : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

Station Name : EQMS

### Instrument Details:

Instrument : pH Analyzer

Make : Daeyoon Scale.

Date of Calibration: 24-05-2024

Model : DWA-3000B,

Due Date : 21-08-2024

Serial No : 51G-22F-08-12,

### Calibration Details of pH Analyzer:-

Range	pH value of Buffer solution	Measured value(pH)	% of Deviation
Auto	4	4.07	1.75 %
Auto	7	7.02	0.28%

Accepted Tolerance:  $\pm 2$  %

Result: The Calibration of above instrument is performed and it meets the allowed deviation.

Calibrated by:

*P. Rajesh*

Mr. P Rajesh  
Engineer - Service



Reviewed by:

*P.N Mahadev*

Mr. P.N Mahadev  
Sr. Engineer - Sales & Service



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## Maintenance Report for MIP-OY LM3189 Opacity Dust Monitor

### Company Details

<b>Company Name:</b>	Andhra Paper Limited, Rajahmundry Unit
<b>Location Name:</b>	Coal Fired Boiler -06

### Boiler Dust Monitor Details

<b>Monitor Model:</b>	MIP-OY LM3189
<b>Serial Number:</b>	3189041

### Maintenance Duration

<b>Start Date:</b>	02.04.2024
<b>End Date:</b>	29.04.2024

### Calibration Status

Checked OK with 20% Opacity Film

### Report Status

Good

### Maintenance Activities

Maintenance Activity	Details
Visual Inspection	Conducted visual inspection of MIP-OY LM3189 Opacity Dust Monitor.
Cleaning	Cleaned external surfaces and optical components using appropriate solutions.
Functional Testing	Verified operational functionality through simulated monitoring scenarios.
Calibration Check	Conducted calibration check with 20% opacity film, confirmed parameters within limits.
Detector Lens Cleaning	Thoroughly cleaned detector lens to ensure optimal performance.
Laser Operational Check	Identified laser as working fine during operational checks.
Electrical Components Check	Confirmed all electrical components are operational.
Board Voltages Check	Verified all board voltages; confirmed within acceptable range.
Voltage Transformer Replacement	Replaced internal voltage transformer due to identified abnormality.

## Operational Checks

### 1. Boiler Dust Monitor Unit

Detail	Measured Value	Ref. required
Output Voltage V+	+14.79 V	+14.8 ± 0.5 V
Output Voltage V-	-14.83 V	-14.8 ± 0.5 V
Reference Voltage (V ref)	+2.51 V	±2.5 ± 0.1 V
Test Point V_TP2	+4.97 V	+5.0 ± 0.1 V
Test Point V_TP6	-5.00 V	-5.0 ± 0.1 V

### 2. Transmitter Unit

Transmitter wavelength	655 nm
------------------------	--------

### 3. Receiver Unit

Detail	Measured Value	Ref. required
Input Voltage V+	+14.76 V	+14.8 ± 0.5 V
Input Voltage V-	-14.79 V	-14.8 ± 0.5 V
Test Point V_TP1	+5.0 V	±5.0 ± 0.3 V
Test Point V_TP2	-4.95 V	-3.0 ± 0.3 V
Reference Voltage (V ref)	-3.00 V	-3.0 ± 0.1 V

## General Checks

S. No	Details	Result
1	Instrument Physical Check	Good
2	Availability of Identification Codes & Marking	Ok
3	Condition of Laser Diode Module	Good
4	Condition of Detector Module	Good
5	Condition of Analysis Module Assembly	Good
6	Condition of Analogue Meter	Good
7	Condition of Range Switch	Good
8	Condition of Display Module	Good
9	Length of Cable Accessories (cable 10 meters)	Yes, Ok
10	Power-on Check	Yes, Ok
11	Burn-in Test	Passed, Ok
12	Analogue Current Output Check	Checked, Ok
13	Analogue Voltage Output Check	Checked, Ok
14	Overall Performance Check	Checked, Ok

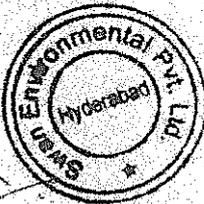
## Summary

The MIP-OY LM3189 Opacity Dust Monitor installed at Andhra Paper Limited's Rajahmundry Unit underwent routine maintenance from 02.04.2024 to 29.04.2024, confirming its operational status as good. All necessary checks and cleaning procedures were conducted, ensuring the monitor's reliability and accuracy in monitoring opacity levels. The internal voltage transformer was replaced due to an identified abnormality. The monitor is now functioning correctly and meets calibration standards.

## Issued by:

Name:	PN Mahadev
Position:	Sr. Sales & Service Engineer
Company:	SWAN ENVIRONMENTAL PRIVATE LIMITED, HYDERABAD

*Inspected by*  
*M. Dabral*





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## Maintenance Report for MIP-OY LM3189 Opacity Dust Monitor

### Company Details

Company Name:	Andhra Paper Limited, Rajahmundry Unit
Location:	Recovery Boiler - 04

### Boiler Dust Monitor Details

Monitor Model:	MIP-OY LM3189
Serial Number:	3189065

### Maintenance Duration

Start Date:	02.04.2024
End Date:	29.04.2024

### Calibration Status

Checked OK with 20% Opacity Film

### Report Status

Good

### Operational Checks

#### 1. Boiler Dust Monitor Unit

Detail	Measured Value	Ref. required
Output Voltage V+	+14.79 V	+14.8 ± 0.5 V
Output Voltage V-	-14.83 V	-14.8 ± 0.5 V
Reference Voltage (V ref)	+2.51 V	±2.5 ± 0.1 V
Test Point V.TP2	+4.97 V	+5.0 ± 0.1 V
Test Point V.TP6	-5.00 V	-5.0 ± 0.1 V



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## Maintenance Report for EMS 2400 Opacity Dust Monitor

### Company Details

Company Name:	Andhra Paper Limited, Rajahmundry Unit
Location Name:	Rotary Lime Klin 01

### Boiler Dust Monitor Details

Monitor Model:	EMS 2400
Serial Number:	M162422

### Maintenance Duration

Start Date:	02.04.2024
End Date:	29.04.2024

### Calibration Status

Checked OK with 20% Opacity Film

### Report Status

Good

### Maintenance Activities

Maintenance Activity	Details
Visual Inspection	Conducted visual inspection of EMS 2400 Opacity Dust Monitor.
Cleaning	Cleaned external surfaces and optical components using solutions.
Functional Testing	Verified operational functionality through simulated monitoring scenarios.
Calibration Check	Calibrated using 20% opacity film, confirmed parameters within limits.
Detector Lens Cleaning	Cleaned detector lens with solutions, confirmed no physical damages.
Laser Operational Check	Identified laser as working fine during operational checks.
Electrical Components Check	Checked all electrical components: confirmed operational status.
Board Voltages Check	Verified all board voltages: confirmed within acceptable range.

## General Checks

S. No	Details	Result
1	Instrument Physical Check	Good
2	Availability of Identification Codes & Marking	Ok
3	Condition of Laser Diode Module	Good
4	Condition of Detector Module	Good
5	Condition of Analysis Module Assembly	Good
6	Condition of Analogue Meter	Good
7	Condition of Range Switch	Good
8	Condition of Display Module	Good
9	Length of Cable Accessories (cable 10 meters)	Yes, Ok
10	Power-on Check	Yes, Ok
11	Burn-in Test	Passed, Ok
12	Analogue Current Output Check	Checked, Ok
13	Analogue Voltage Output Check	Checked, Ok
14	Overall Performance Check	Checked, Ok

### 2. Transmitter Unit

Details for the transmitter unit will be filled here.

### 3. Receiver Unit

Detail	Measured Value	Ref. required
Input Voltage V+	+14.76 V	+14.8 ± 0.5 V
Input Voltage V-	-14.79 V	-14.8 ± 0.5 V
Test Point V_TP1	+5.0 V	±5.0 ± 0.3 V
Test Point V_TP2	-4.95 V	-3.0 ± 0.3 V
Reference Voltage (V ref)	-3.00 V	-3.0 ± 0.1 V

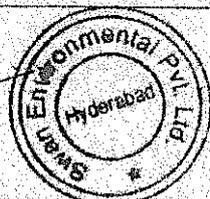
## Summary

The MIP-OY LM3189 Boiler Dust Monitor installed at Andhra Paper Limited's Rajahmundry Unit underwent routine maintenance from 02.04.2024 to 29.04.2024, confirming its operational status as good. All necessary checks and cleaning procedures were conducted, ensuring the monitor's reliability and accuracy in monitoring opacity levels. The internal voltage transformer was replaced due to an identified abnormality. The monitor is now functioning correctly and meets calibration standards.

### Issued by:

Name:	PN Mahadev
Position:	Sr. Sales & Service Engineer
Company:	SWAN ENVIRONMENTAL PRIVATE LIMITED, HYDERABAD

*Inspected by*  
*PN Mahadev*





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## Maintenance Report for EMS 2400 Opacity Dust Monitor

### Company Details

Company Name:	Andhra Paper Limited, Rajahmundry Unit
Location Name:	Rotary Lime Klin 02

### Boiler Dust Monitor Details

Monitor Model:	EMS 2400
Serial Number:	M162423

### Maintenance Duration

Start Date:	02.04.2024
End Date:	29.04.2024

### Calibration Status

Checked OK with 20% Opacity Film

### Report Status

Good

### Maintenance Activity, Observations, and Actions Taken

S. No	Maintenance Activity	Observations	Actions Taken
1	Identified low detector voltages and calibration issues.	Detector voltages were only 0.9V, actual voltage should be +5V.	Replaced both detector boards and the detector itself.
2	Checked laser intensity, found to be within acceptable range.	Laser intensity checked and found to be good.	Conducted calibration to ensure accurate readings.

## Operational Checks

### 1. Boiler Dust Monitor Unit

Detail	Measured Value	Ref. required
Output Voltage V+	+14.79 V	+14.8 $\pm$ 0.5 V
Output Voltage V-	-14.83 V	-14.8 $\pm$ 0.5 V
Reference Voltage (V ref)	+2.51 V	$\pm$ 2.5 $\pm$ 0.1 V
Test Point V.TP2	+4.97 V	+5.0 $\pm$ 0.1 V
Test Point V.TP6	-5.00 V	-5.0 $\pm$ 0.1 V

### 2. Transmitter Unit

Transmitter wavelength	655 nm
------------------------	--------

### 3. Receiver Unit

Detail	Measured Value	Ref. required
Input Voltage V+	+14.76 V	+14.8 $\pm$ 0.5 V
Input Voltage V-	-14.79 V	-14.8 $\pm$ 0.5 V
Test Point V.TP1	+5.0 V	$\pm$ 5.0 $\pm$ 0.3 V
Test Point V.TP2	-4.95 V	-3.0 $\pm$ 0.3 V
Reference Voltage (V ref)	-3.00 V	-3.0 $\pm$ 0.1 V

## General Checks

S. No	Details	Result
1	Instrument Physical Check	Good
2	Availability of Identification Codes & Marking	Ok
3	Condition of Laser Diode Module	Good
4	Condition of Detector Module	Good
5	Condition of Analysis Module Assembly	Good
6	Condition of Analogue Meter	Good
7	Condition of Range Switch	Good
8	Condition of Display Module	Good
9	Length of Cable Accessories (cable 10 meters)	Yes, Ok
10	Power-on Check	Yes, Ok
11	Burn-in Test	Passed, Ok
12	Analogue Current Output Check	Checked, Ok
13	Analogue Voltage Output Check	Checked, Ok
14	Overall Performance Check	Checked, Ok

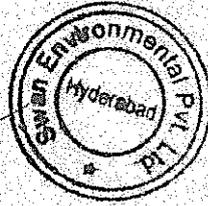
## Summary

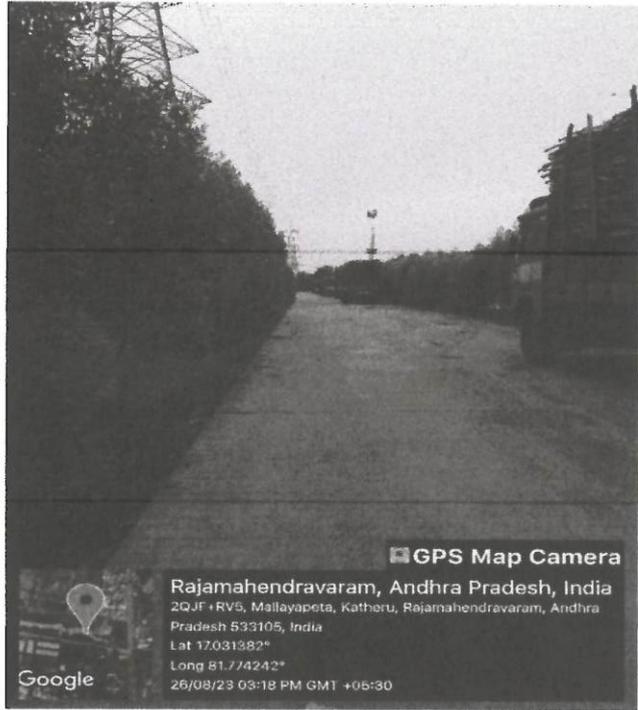
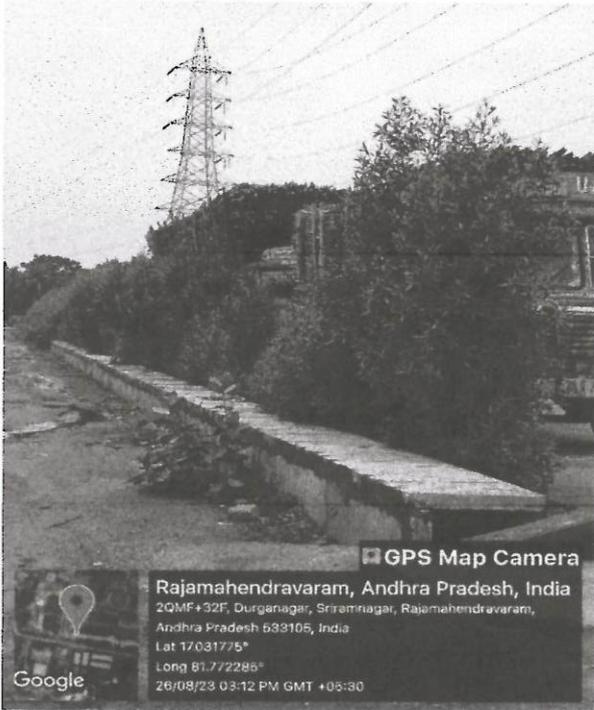
The EMS 2400 Opacity Dust Monitor installed at Andhra Paper Limited's Rajalmundry Unit, Rotary Lime Klin 02, underwent routine maintenance from 02.04.2024 to 29.04.2024, confirming its operational status as good. All necessary checks and cleaning procedures were conducted, ensuring the monitor's reliability and accuracy in monitoring opacity levels. Semiconductors were replaced due to identified issues. The monitor is now functioning correctly and meets calibration standards.

## Issued by:

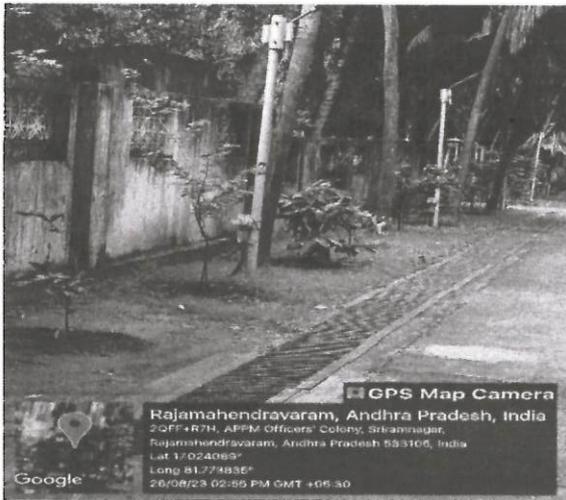
Name:	PN Mahadev
Position:	Sr. Sales & Service Engineer
Company:	SWAN ENVIRONMENTAL PRIVATE LIMITED, HYDERABAD

*Imperted by  
Naha*

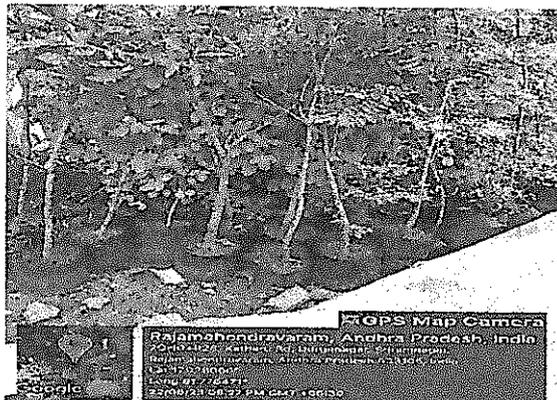




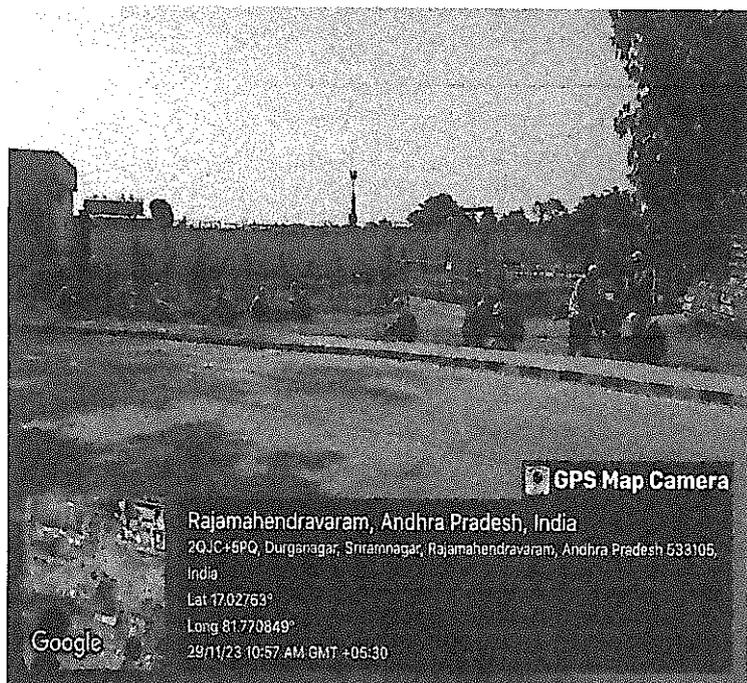
Planation during rainy season in wood yard both side of road 800 meters length



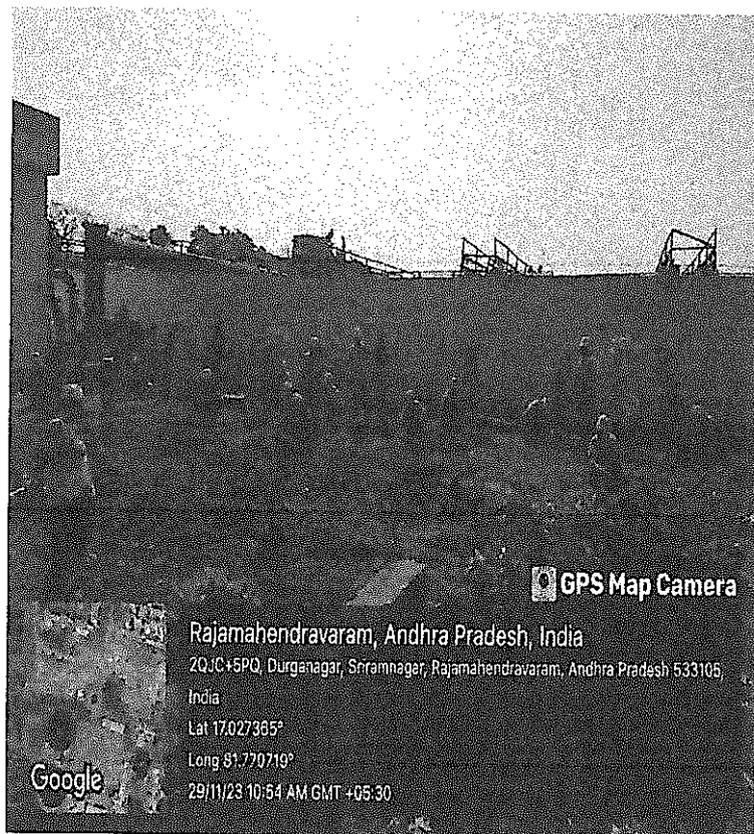
Planation at Mill roadsides



Sapling kept ready for plantation at site.



Sapling at internal road side. i.e Khadambha , Ashoka , Mango and Neem.



Sapling at ETP area. i.e  
Khadambha , Ashoka  
and Neem.



APL/ENV/2023/11-594

08.11.2023

To

Environmental Engineer,  
A. P. Pollution Control Board, Regional Office,  
Kakinada, **Andhara Pradesh.**

SUB: Andhra Paper Limited, Rajahmundry – Compliance status on CFO condition no.11 under General Head – Intimation

REF : **Consent Order No:APPCB/VSP/RJY/361/CTO/HO/2010- Dated 03.07.2023**

Dear Sir

We are pleased to inform you the compliance status of General Condition under S.No.11 of above cited CFO order dated 03.07.2023 as under:

**S. No: 11 of General Condition of CFO order**

*"The Industry shall restrict the temperature of wastewater to below 35 deg.c at inlet of ETP. The Plan of action to restrict the temperature of wastewater at inlet of ETP within 2 months shall be furnished to RO Kakinada and ZO Visakhapatnam."*

**Compliance Status:**

**Existing ETP cooling tower was rebuild as per below and successfully commissioned in the 3<sup>rd</sup> week of August. 2023.**

- Entire civil tank and structures renovated.
- Cooling tower internal replaced
- Heat exchange surface area increased
- Wings increased from 4 to 8 No's of new set, accordingly gear new gear box installed
- Motor capacity increased from 50 HP to 100 HP.
- Drip eliminators replaced.
- Modification of inlet effluent distribution header line.
- Safety handrails replaced with SS pipe.
- Hot well slope readjusted to maintain equivalence
- Effluent inlet nozzles replaced

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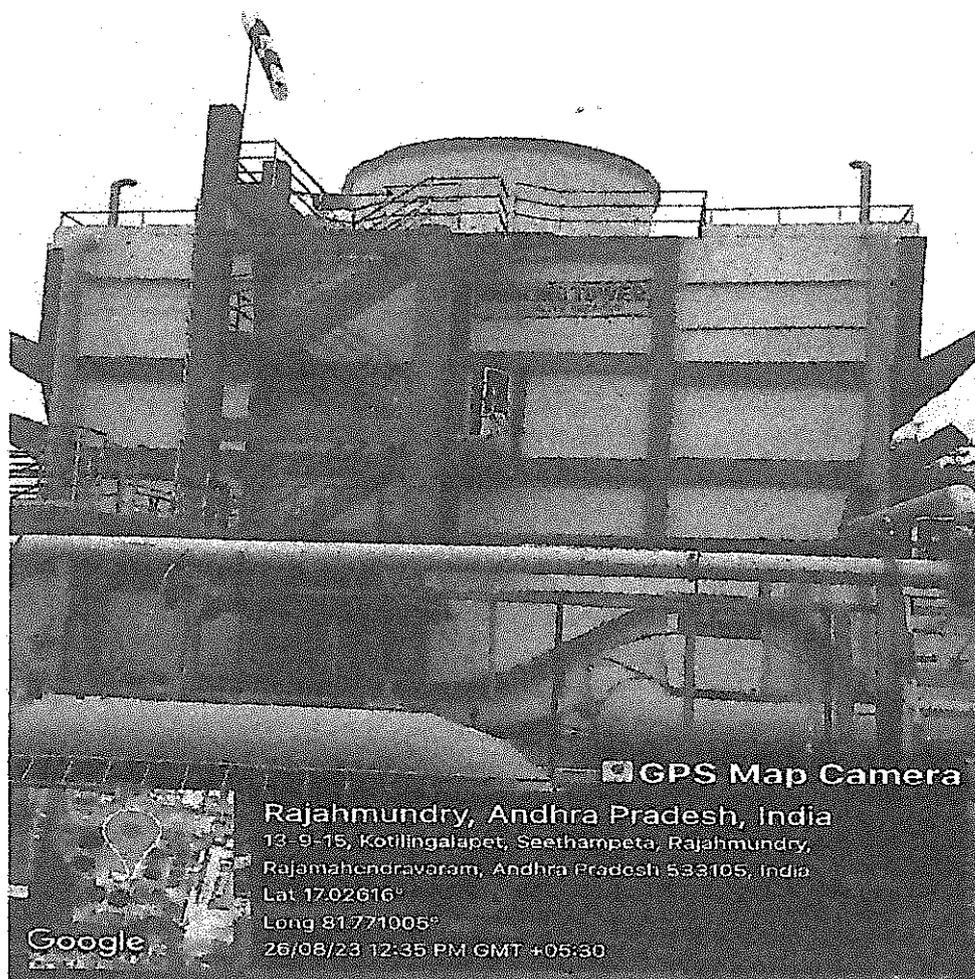
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## ETP COOLING TOWER PHOTOGRAPHS



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The project work was assigned to M/S. S.V.Cooling Towers (P) Ltd. E-32 Kavi Nagar Industrial Area, Sector-17, Ghaziabad-201002, U.P, India with an **estimated Budget is: Rs.73.714 Lacs.**

**Post implementation of Effluent temperatures are given below which are in compliance.** The photographs of cooling tower is attached to this letter.

Date	ETP Inlet ( or ) Cooling tower inlet (Degrees centigrade)	Cooling tower outlet ( or ) Aeration Inlet (Degrees centigrade)	Differential Temperatures
07.11.2023	49	36	13
08.11.2023	48	35	13

This is for your kind information and update

Yours Sincerely  
For **Andhra Paper Limited. Unit – Rajahmundry**

**M. Sura Reddy**  
**Sr. Vice President (Operations) & Factory Manager**

CC : Regional Directorate  
CPCB – Chennai.



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# ANNEXURE -

Annexure - 1/76

appcb.glensserver.com/#/landing/consolidatedView/siteTrends/site\_1156/table

ET-7000/PET-7000 4-20mA scaling calc.

Dashboard - Live Status - Regulator Reports - Industry Reports - Calibration - Utilities - Work Flow

Paused All Bookmarks

Location	Parameter	Value	Limit	Range	
Near_STP	2.86 ug/m3 Near_STP - NO 15 Min Avg 2.624 ug/m3 Limit: 0 - 80.0 ug/m3	24.71 ug/m3 Near_STP - NOx 15 Min Avg 22.817 ug/m3 Limit: 0 - 80.0 ug/m3	21.8 ug/m3 Near_STP - NO2 15 Min Avg 21.224 ug/m3 Limit: 0 - 80.0 ug/m3	0.0 ug/m3 Near_STP - SO2 15 Min Avg 0.0 ug/m3 Limit: 0 - 80.0 ug/m3	0 - 1000
	24.1 ug/m3 Near_STP - PM2.5 15 Min Avg 24.1 ug/m3 Limit: 0 - 60.0 ug/m3	36.0 ug/m3 Near_STP - PM10 15 Min Avg 36.0 ug/m3 Limit: 0 - 100.0 ug/m3	0.0 ppm Near_STP - VOC 15 Min Avg 0.0 ppm Limit: 0 - 5.0 ppm		
	0.98 ug/m3 Opp_PULP_MILL - NO 15 Min Avg 0.893 ug/m3 Limit: 0 - 10.0 ug/m3	44.83 ug/m3 Opp_PULP_MILL - NOx 15 Min Avg 44.83 ug/m3 Limit: 0 - 100.0 ug/m3	43.85 ug/m3 Opp_PULP_MILL - NO2 15 Min Avg 43.75 ug/m3 Limit: 0 - 100.0 ug/m3	0.0 ug/m3 Opp_PULP_MILL - SO2 15 Min Avg 0.0 ug/m3 Limit: 0 - 10.0 ug/m3	0 - 1000
Opp_PULP_MILL	18.0 ug/m3 Opp_PULP_MILL - PM2.5 15 Min Avg 18.0 ug/m3 Limit: 0 - 50.0 ug/m3	30.9 ug/m3 Opp_PULP_MILL - PM10 15 Min Avg 30.9 ug/m3 Limit: 0 - 100.0 ug/m3	0.0 ppm Opp_PULP_MILL - VOC 15 Min Avg 0.0 ppm Limit: 0 - 5.0 ppm		

Type here to search

15:44 16-07-2024

Dashboard | 4-20mA scaling calc. | 15:45 16-07-2024

Godavari\_House

<p>2.2 ug/m3 Godavari_House - NO 15 Min Avg: 2.821 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000</p>	<p>34.21 ug/m3 Godavari_House - NOx 15 Min Avg: 34.582 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000</p>	<p>32.01 ug/m3 Godavari_House - NO2 15 Min Avg: 32.824 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000</p>	<p>0.65 ug/m3 Godavari_House - SO2 15 Min Avg: 0.773 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000</p>
<p>8.4 ug/m3 Godavari_House - PM2.5 15 Min Avg: 8.4 ug/m3 Limit: 0 - 60.0 ug/m3 Range: 0 - 1000</p>	<p>29.5 ug/m3 Godavari_House - PM10 15 Min Avg: 29.4 ug/m3 Limit: 0 - 100.0 ug/m3 Range: 0 - 1000</p>	<p>4.2 ug/m3 Near_ETP - NO2 15 Min Avg: 4.441 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000</p>	<p>8.25 ug/m3 Near_ETP - NOx 15 Min Avg: 8.274 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000</p>
<p>0.0 ppm Godavari_House - VOC 15 Min Avg: 0.0 ppm Limit: 0 - 5.0 ppm Range: 0 - 20</p>	<p>69.0 ug/m3 Near_ETP - PM10 15 Min Avg: 70.0 ug/m3 Limit: 0 - 100.0 ug/m3 Range: 0 - 1000</p>	<p>71.2 ug/m3 Near_ETP - PM2.5 15 Min Avg: 71.2 ug/m3 Limit: 0 - 60.0 ug/m3 Range: 0 - 1000</p>	<p>14.44 ug/m3 Near_ETP - SO2 15 Min Avg: 14.437 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000</p>
<p>0.0 ppm Near_ETP - VOC 15 Min Avg: 0.0 ppm Limit: 0 - 5.0 ppm Range: 0 - 20</p>	<p>2.64 ug/m3 Near_ETP - NO 15 Min Avg: 2.64 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000</p>	<p>2.64 ug/m3 Near_ETP - NO2 15 Min Avg: 2.64 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000</p>	<p>2.64 ug/m3 Near_ETP - NOx 15 Min Avg: 2.64 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000</p>

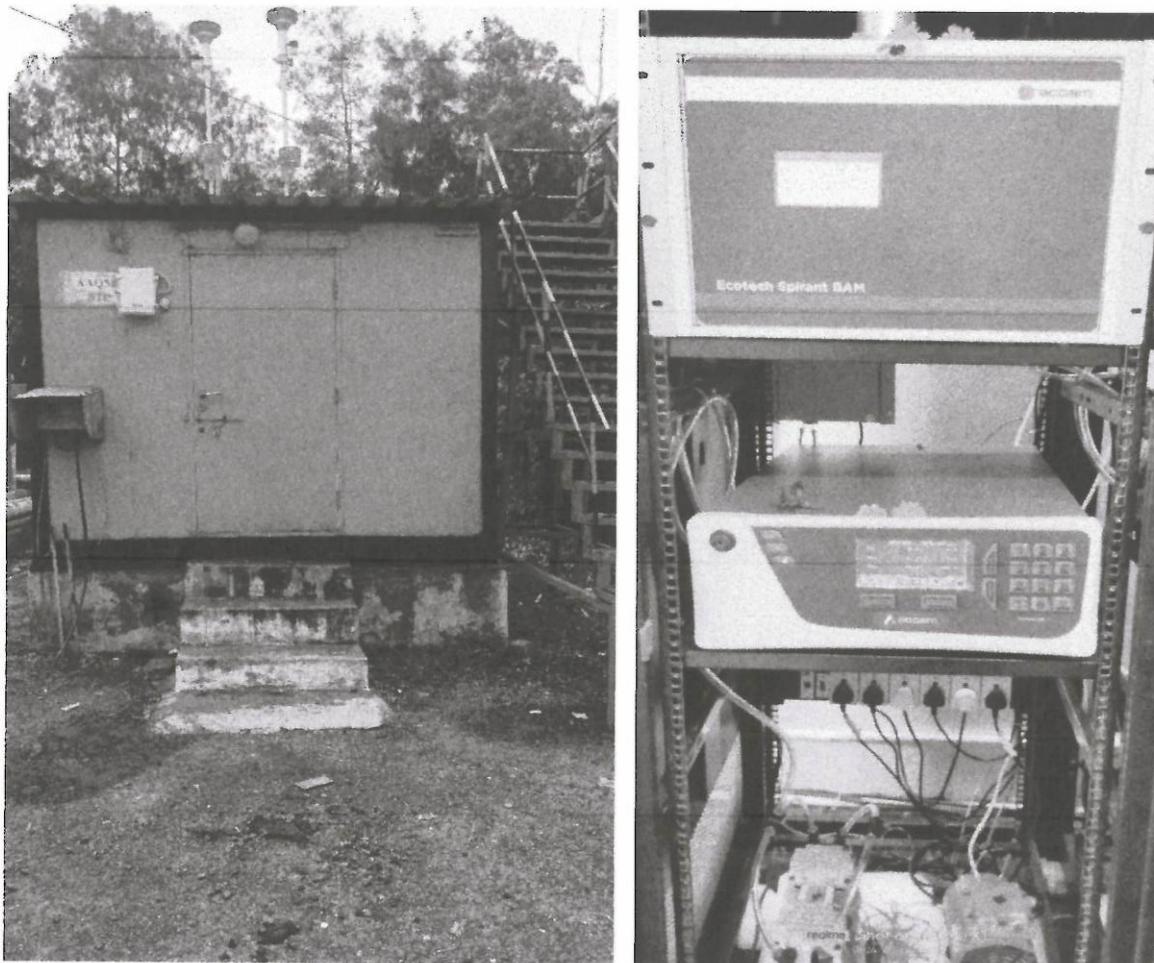
Near\_ETP

Near\_ETP

2.64 ug/m3

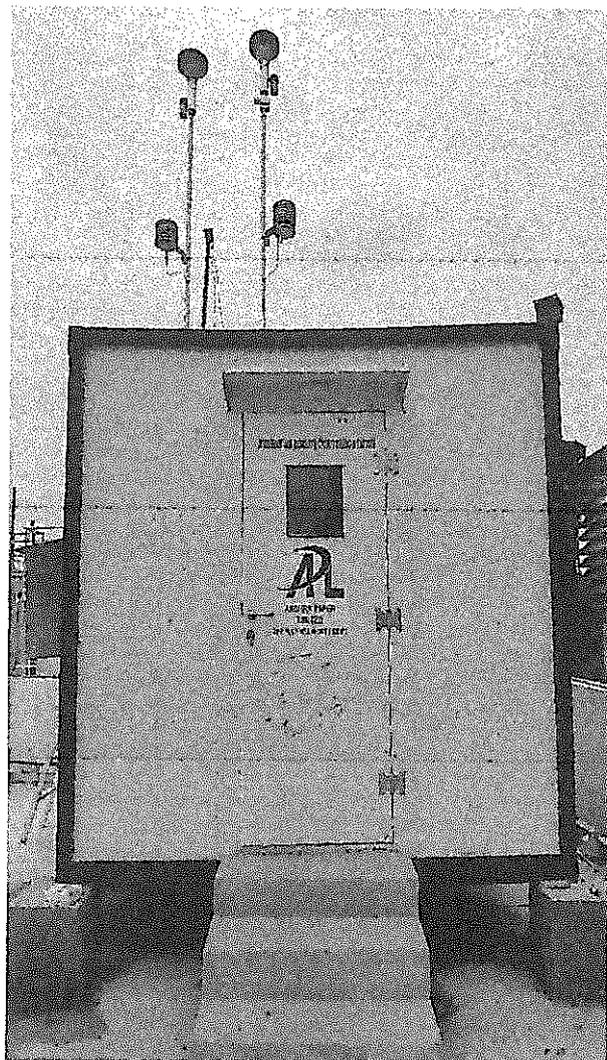
Type here to search

## ANNEXURE - 17



**3<sup>rd</sup> New Ambient Air Quality Monitoring Station**

**Location: Near STP of APL Township**



**4<sup>th</sup> New Ambient Air Quality Monitoring Station**

**Location: Opp. Pulp Mill**



**Lr. No : APL/ENV/2024/01- 613**

**02.01.2024**

To

Hon'ble Member Secretary  
Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar,  
Delhi-110032, mscb.cpcb@nic.com

**SUB:** Andhra Paper Limited –**"Action taken cum compliance status Report"** on  
Final report filled by Central Pollution Control board in compliance of the  
Hon'ble NGT (SZ), Chennai Order dated 12.04.23 in the matter of OA No.  
33 / 2023 – Regarding.

**Respected Sir**

The Hon'ble National Green Tribunal (NGT), South Zone, Chennai registered a case on the petition received from Sri Nukatati Rajasekhar & Sri Marri Pushparaj, Kotilingalapeta, Rajamahendravaram, East Godavari District, Andhra Pradesh in Original Application No.33 of 2023 (SZ). The Hon'ble Tribunal considered the prayer of O.A.No.33 of 2023 and directed, the Central Pollution Control (CPCB) can inspect and file a report in this regard.

Accordingly, the Central Pollution Control, Regional Directorate officials inspected M/s. Andhra Paper Limited and filed a report in The Hon'ble National Green Tribunal (NGT), South Zone, Chennai.

We are in receipt of the cited CPCB filled report through our council as well as NGT website. Andhra Paper Limited would like to **submit ACTION TAKEN CUM COMPLIANCE STATUS REPORT** for the observations / recommendations made in the said CPCB report for your kind perusal & oblige.

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**Your kind attention is invited for the below facts and explanations:**

At the outset, we would like to brief about company background and further pollution control systems.

**Company Back Ground in brief :**

Andhra Paper is only the large pulp and paper industry in the state of Andhra Pradesh. Formerly International Paper APPM Limited, has a rich history of over 100 years when it was established as Carnatic Paper Mills limited in the year 1921. Over the years, the management of the Company changed hands and is presently known as Andhra Paper Limited. They are one of the largest paper and pulp manufacturers in India producing writing, printing and copier papers for foreign and domestic markets. Their production facilities at Rajahmundry and Kadiyam in East Godavari District, Andhra Pradesh, have a total production capacity of 240,000 Tonnes Per Annum (TPA). The company employs Direct and indirect work force of around 5300 persons overall for both the locations. Located at Rajamahendravaram, East Godavari District. The company holds ISO 14001, ISO 9001 & ISO 45001 certifications as well as the Forest Stewardship Council (FSC) Chain of Custody (COC) Certification which indicates that the wood as a raw material for paper production has been sourced from sustainably managed forests.

**Environmental Pollution Control Systems:**

**1) Implementing Pioneering State-of-art technologies:**

The industry adopting state-of-the-art technologies achieving a sustainable production process as well as a sustainable environment. Their Farm Forestry program generates more wood on the earth than they consume for their production, in fact, at more than double the rate of its consumption. Their investment towards

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responsible farm forest stewardship ensures a healthy and productive forest ecosystem. Over a period of time the Respondent have invested in advanced technologies to deliver integrated and sustainable services and products based on excellent quality, safety, health and environment principles. A few notable technologies/facilities implemented are as follows:

- i. Bellmer Dewatering Sludge Press for ETP Sludge
- ii. ETP Sludge Drier
- iii. One of its Kind Odour Control Management i.e., LVHC & HVLC system
- iv. Foul Condensate Collection and treatment with H<sub>2</sub>O<sub>2</sub>
- v. Excellent Spill Control management
- vi. 100% cooking effluents segregated and reused under Chemical Recovery process.

**In addition to the above, the industry has implemented the following advanced technologies:**

- i. Continuous Cooking Digester Technology.
- ii. Environmentally friendly Elemental Chlorine Free (ECF) Process.
- iii. Oxygen Delignification bleaching to reduce pollution Load.
- iv. Precipitated Calcium Carbonate production for inter use by using Lime Kiln flue gas CO<sub>2</sub> emission, thereby reducing greenhouse gases (GHG) emission into atmosphere.
- v. Waste to Wealth: Chemical Recovery Plant to produce Steam, Captive Power, White Liquor for wood cooking and weak white Liquor for reuse.
- vi. 65 – 68 % captive power generation from Bio Fuels (Black Liquor) management.

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- vii. Water Conservation from 250 M3 / Ton of product during inception of mill to 52 M3 / Ton of product right now and corresponding effluent reduction, thereby reducing the water consumption substantially, year on year.
- viii. Full-fledged Effluent Treatment Plant consists of Primary, Secondary & Tertiary Process.
- ix. Reclaimed Back Water System for reuse of effluents from Paper process operations.
- x. Reuse of Evaporator Secondary Condensates to reduce effluent load.
- xi. Turbo Air Blower for ETP Aeration system
- xii. Installation of JET Aerators in Aeration tank in Nov.2023 to further improve purification of wastewater.
- xiii. Used Oil recycling into non-critical equipment to reduce waste.
- xiv. Drinking Water Supply to Surrounding Communities @ 2500 M3 / day.
- xv. Farm Forestry: Revenue generation to farmers & Waste Lands become the means of employment.

The above technologies and facilities ensure sustainable growth through a smart investment portfolio leading to environment friendly growth and to adherence to the compliance standards.

**The proposed investments on further enhancement of pollution abatement is table below and is a continues ongoing process to upgrade and updating our systems for Environmental sustainability.**

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<b>Proposed Capital investment for FY 2023-24</b>				
S.No	Action Plan	Budget Rs.Lac	Target completion	Current Status
1	<b>ETP Improvement:</b> Jet Aerators Installation in Aeration Tank. 2 by replacing diffuser membrane system, 8 Nos x 60 HP = 480 HP	<b>187</b>	31.01.2024	4 Nos of aerators installed and balance 4 nos to install.
2	<b>Dust Extraction</b> System in Chipper House	<b>200</b>	Completed	In Operation
3	<b>Replacement of analyzers in existing 2nd - AAQMS station for PM 10, PM 2.5, So2 NOX.</b> Installation of VOC also.	<b>50</b>		In operation and connected to PCB
4	H2 S online stack analyzer for RLK. 2		15.01.2024	1) Installation completed 2) U / data stabilization. 3) Request made to CPCB for additional parameter approval.
5	<b>Water Sprinklers at Coal yard and Lime Kiln area.</b>	<b>2</b>	Completed	In operation
6	<b>Recovery Boiler ESP – 3</b> Fields 1 to 4 renovation during mill shut for 35 days.	<b>1300</b>	31.04.2024	Orders released for supply and erection.
7	<b>ETP Cooling Tower 100 %</b> renovation and Upgradation to achieve < 35 deg.c effluent temperature.	<b>73.74</b>	Completed	In operational for 3 <sup>rd</sup> week of August.2023.
8	<b>Water Conservation:</b> Replacement of fresh water with Paper Machine waste water in Pulp Mill D 1 stage @ 3600 M3 / day	<b>70</b>	Completed	In operation
9	Oxygen Injection Line into Aeration rank – 1	<b>5</b>	Completed	
10	Redesigning of Storm water drainage system	<b>10.6</b>	31.01.2024	Draft drawing for review and finalization
11	Additional 2 no's of AAQMS as per EC condition	<b>96.88</b>	28.02.2024	Order placed to vendor
12	Storage shed for ETP Sludge	<b>10.44</b>	31.03.2024	Under ordering stage
	<b>Total Investment</b>			<b>2005.66 Lacs ( 20.566 Cores)</b>

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## 2. Air Pollution Control :

All the source emissions from the stacks are controlled by Electrostatic Precipitators (ESP). The main source of Air pollution, if any is from the stacks of Recovery boiler, Coal fired boiler, Rotary lime kilns – 1 & 2. All these stacks are provided with ESPs for control of air pollution. Air pollution control equipment is well maintained and overhauled from time to time for sustainable performance. Focused on sustainable and reliable operation of Air Pollution Control Systems (APCS) and investing on continuous basis year-on-year under preventive maintenance program. During the Financial year 2022-23, this Respondent spent Rs.8.69 crore for renovation of the ESPs and next financial year FY 2023-24, the industry allocated Rs.13.0 Cores. We are operating in an environmentally sustainable and ethical way for controlling the air pollution.

All the four stacks fitted with online continuous emission monitoring analysers and the data therefrom are immediately transmitted to the CPCB and the APPCB sites. The details of ESPs employed are tabled below:

Recovery Boiler -4 stack	ESP – 3 no's	Total : 3+3+5 = 11 fields
Coal Fired Boiler - 6 Stack	ESP -1 No	Total : 3 fields
Rotary lime kilns - 1 stack	ESP -1 No	Total : 2 fields
Rotary lime kilns - 2 stack	ESP -1 No	Total : 3 fields

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### **3. Odour Control:**

The odour control systems provided at the Plant is one the best and unique among Indian Paper industry. Other paper industries are visiting this mill to study and adopt this infrastructure for their establishments. In the year 2014–15, the mill engaged M/s. Lundberg – USA for evaluation of odour control systems and to suggest best technologies/alternatives and for upgradation requirements of existing systems to address odour. At that time, the US International Paper's (former entity) Subject Matter Experts (SMEs) guided and monitored the execution and commissioning of below projects at a cost of Rs.11.64 crore;

- 1) Installed Collection and Treatment of Foul streams with hydrogen peroxide and further in ETP.
- 2) Up graded the existing LVHC NCG Incineration System
- 3) Up graded the existing HVLC NCG Incineration System

### **4. Water Pollution Control:**

River Godavari is the source of water for process and domestic consumption. Flow meter is provided at the raw water intake and effluent discharge point. The effluent generated from integrated pulp and paper manufacturing process is treated at Effluent Treatment Plant (ETP) having a capacity of 45000 KLD through extended Activated Sludge Process. ETP consisting of Primary clarifiers, Cooling tower, Aeration tanks – 2 no's, Secondary clarifiers – 2 no's, Tertiary clarifier, Sludge dewatering presses – 2 no's & Sludge Drier.

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The treated effluent after reuse for gardens within the premises and remaining excess is being discharged to Sand Bunds at Turuplanka island which is located middle of the river through pipeline by pumping as per the disposal method permitted in the Consent to Operate. It located 5 kms upstream of the Industry and intake of raw water to the Industry. The know-how and designs for this unique initiative was provided by Central Public Health Engineering Research Institute (CPHERI) –now known as CSIR-NEERI.

The industry is maintaining online real time monitoring system for monitoring of Flow, pH, TSS, BOD and COD along with web camera facilities as per the directions of CPCB. The industry connected Online effluent quality monitoring system to APPCB & CPCB websites.

The APPCB has been collecting the treated effluent being disposed into Sand Shoals of Thurpulanka by M/s. Andhra Paper Limited on monthly basis. As per the analysis reports all the parameters of the treated effluent are meeting the APPCB's discharge standards.

#### **5. ETP SLUDGE HANDLING SYSTEM:**

The plant has installed one of the best technologies that is superior to any other facility in the Indian paper industry. Infact, this Respondent is the only establishment that has installed the ETP sludge dryer in the Indian paper industry.

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This ETP sludge handling system comprises the following features:

- i. Bellmer Press for handling of Primary and secondary ETP sludge to obtain dryness of 35%.
- ii. The above obtained 35 % dried sludge is taken to “SLUDGE DRIER” to obtain 85% dryness and is being fed to coal fired boiler as biofuel as per Consent issued by the APPCB. The Gross Calorific Value (GCV) is around 2000 Kcal/Kg.
- iii. Andritz Press for handling Reclamation back water system white fiber sludge to obtain 35 % dried cake and is being sold to egg tray manufacturers as per consent.

## **6. GODAVARI RIVER WATER QUALITY**

- i. The APPCB has submitted ACTION PLAN FOR REJUVENATION OF RIVER GODAVARI, RAJAMAHENDRAVARAM, Under PRIORITY – V to CPCB, New Delhi. The concluding remarks by the board is extracted below for easy reference:

*“As per the NWMP data for the years from 2014-19, it was observed that F.Coli levels are less than 500 MPN/100 ml. The BOD levels recorded are less than 3 mg/l except in the month of May, 2016. As the BOD and F. Coli levels are within the outdoor bathing standards, during the years 2017, 2018 & 2019, it is requested that Godavari River Stretch may be deleted from the list of 351 Polluted River Stretches identified by CPCB”.*

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- ii. Earlier, River Godavari from Rayannapeta to Rajamahendravaram was notified as polluted River stretch by CPCB under priority-V (BOD range 3-6 mg/l) in O.A. No. 673 of 2018 and same was removed from polluted river stretch as per the minutes of the 15th meeting of Central Monitoring Committee in the NGT matter in O.A.No.673 of 2018 held on 10.01.2023.

## **7. WASTE MANAGEMENT**

Hazardous and nonhazardous wastes generated are stored under sheds / closed containers and disposed as per methodology prescribed in the Consent To Operate permit issued by A.P.Pollution Control Board.

All the above materials and facts clearly indicate that there is no adverse impact on Godavari river water quality due to company operations and treated effluent disposal methods which is being scrupulously followed by it since its inception and being enhances further year-on-year moving towards sustainability by investing on environmental pollution abatement.

**Action taken cum compliance status Report” on Final report filled by Central Pollution Control board in compliance of the Hon’ble NGT (SZ),Chennai Order dated 12.04.23 in the matter of OA No. 33 / 2023 is attached to this letter for your kind information and consideration.**

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It is therefore prayed CPCB may please to record the report.

Yours Sincerely  
For **Andhra Paper Limited. Unit – Rajahmundry**

**M. Sura Reddy**  
**Sr. Vice President (Operations) & Factory Manager**



CC : Central Pollution Control Board - Regional Directorate, Chennai

Andhra Pradesh Pollution Control Board – Environmental Engineer - Regional Office, Kakinada

Andhra Pradesh Control Board – Head Office - Joint Chief Environmental Engineer – Legal

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**Andhra Paper Limited - Action taken cum compliance status Report" on Final report filled by Central Pollution Control board in compliance of the Hon'ble NGT (SZ),Chennai Order dated 12.04.23 in the matter of OA No. 33 / 2023.**

<b>CPCB Report Page No &amp; S. No</b>	<b>CPCB's Observation / Recommendation</b>	<b>M/s. Andhra Paper Limited response /Actions Plans</b>
Page No: 22 S. No : 18 Point No : i	To renew the lease agreement for discharge of treated effluent to lagoons at Turupulanka.	<p><b>Under Progress with District Administration &amp; is being perused constantly.</b></p> <p><b><u>Present status:</u></b></p> <p>1) <b>Lease was for the period 1999-2009. Further extension of 33 years recommended on 14.08.2014:</b> The Chief Commissioner of Land Administration &amp; Special Chief Secretary to Govt. Of A. P recommended Turupulanka Island lease renewal from 1999 to till 2009 and for a further period of 33 years and forwarded recommendation to Government of Andhra Pradesh on 14.08.2014 for further action <b>(ANNEXURE - 1).</b></p> <p>2) <b>Commissioner of Industries, Government of A. P recommended the lease proposal to Principal Secretary of Industries and commerce,</b> Government of A.P vide Lr. No :29/1/2014/14744, dated 29/11/2014 subject to 10 % of present market value as lease amount with provision for enhancement of lease amount in a block period of 5 years <b>(ANNEXURE - 2)</b></p>

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		<p>3) District Collector, East Godavari communicated vide ref. E1/495/2016, dated 04.2016, stating that matter is referred to Sub - Collector, Rajamahendravaram and also constituted a committee with the members of A.D Agriculture, A.D Horticulture, District Registrar and Tahsildar to examine the lease proposal and also for fixation of lease rent.</p> <p>4) Committee headed by Sub- Collector inspected Turupulanka on 28.09.2016. Currently the matter is under process with District Administration.</p> <p>5) <b>Again as per letter dated 18.03.2023, Turupulanka land survey conducted by Office of Tahsildar - Rajamahendravarm Urban on 20.03.2023 and report submitted to District Collector (ANNEXURE - 3).</b></p> <p>6) Recent submission to District Collector vide letter dated 07.12.2023 is filed herewith as <b>ANNEXURE - 4</b> wherein this cited all the above facts and requested for the renewal of the lease.</p> <p><b>Diligently following up with the District Administration.</b></p>
<p>Page No: 22 S. No : 18 Point No : ii</p>	<p>To augment air pollution control devices at recovery boiler and coal fired boiler to control particulate matter</p>	<p><b><u>Recovery Boiler Action Plan :</u></b></p> <p>1) Recovery Boiler Source emissions from the stacks are controlled by Electrostatic Precipitators (ESP). There are 3 ESPs with 11 electric fields.</p>

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	emissions.	<p>2) Under preventive maintenance and sustainability program, it is proposed to replace of the Recovery Boiler ESP No.3 - fields 1 to 4, with an <b>estimated budget of Rs.13.00 Crores. Purchase order issued to M/s. KC Cottrell Engineering services, Chennai vide order no : 13792446, dt. 14.08.2023.</b> The entire replacement work is expected to be completed by March 31, 2024. Copy of said purchase order is herewith filed as <b>ANNEXURE - 5.</b></p> <p>3) In the year 2022-23, internal fields for ESP 1 &amp; 2 completely replaced with an cost of Rs. 8.69 Cores. Previously ESP - 3 field - 1 internals replaced during the year 2020-21.</p> <p><b><u>Coal fired Boiler Action Plan :</u></b></p> <p>1) Coal fired boiler Source emissions from the stacks are controlled by Electrostatic Precipitators (ESP). There is 1 ESP with a total of 3 electric fields.</p> <p>2) Under preventive maintenance and sustainability program, it is proposed to take 100 % overhauling, cleaning and maintenance during annual mill shut i.e. Feb - Mar. 24 to improve dust collection efficiency.</p> <p><b>Further it is bring to your kind notice that :</b></p> <p>1) NABL accredited 3<sup>rd</sup> party has been testing once in a month and the PM values are within the norms. The 3<sup>rd</sup> party test reports of last three months are filed herewith as <b>ANNEXURE - 6.</b></p>
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		<p>2) The PM values of samples collected by <b>APPCB on 02.05.2023 is within the norms. Recovery Boiler PM value is 40.4 mg/ Nm3 against the norm of 50 mg/Nm3. Coal fired boiler PM value is 38.7 mg/ Nm3 against the norm of 50 mg/Nm3.</b> The APPCB reports of the collected samples are filed herewith as <b>ANNEXURE - 7.</b></p> <p>3) The PM values of samples collected by <b>M/s. Glens Innovation Labs Pvt. Ltd on 12.12.2023 &amp; 14.12.2023 is within the norms. Recovery Boiler PM value is 44.0 mg/ Nm3 against the norm of 50 mg/Nm3. Coal fired boiler PM value is 47.2 mg/ Nm3 against the norm of 50 mg/Nm3.</b> The said copies of reports are filled herewith as <b>ANNEXURE - 8.</b></p>
<p>Page No: 22 S. No : 18 Point No : iii</p>	<p>To implement measures to control Hydrogen Sulphide emissions at Rotary Lime Kilns -1 and Rotary Lime Kilns -2 and comply with the source emission standards.</p>	<p>1) The rotary lime kiln temperature are always maintained higher than 1050 deg.c for 100 % calcination of Ca Co3 to CaO, which is the output product to use in further manufacturing processes.</p> <p>2) <b>The Non Condensable Gases (NCG), which contain Sulphur compounds are incinerated in rotary lime-kilns across all pulp and paper industries and the same is a proven technology for treatment of these NCG gases.</b></p> <p>3) The temperature profile recorded during sampling period by CPCB on 15.05.2023 is attached as <b>ANNEXURE - 9. The temperature of KILN-1 is &gt; 1290 deg.c &amp; KILN-2 is &gt; 1440 deg.c.</b></p>

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		<p>4) <b>The higher Kiln temperature indicates that H<sub>2</sub>S presence in the NCG gases is completely decomposed. Hence, there is no chance of such high values reporting in stacks flue gases.</b></p> <p>5) The H<sub>2</sub>S values of <b>samples collected by APPCB on 02.05.2023</b> are within the norms.</p> <p><b>Rotary Lime Kiln - 1 H<sub>2</sub>S value is 7.0 mg/ Nm<sup>3</sup> against the norm of 10 mg/Nm<sup>3</sup>.</b></p> <p><b>Rotary Lime Kiln - 2 H<sub>2</sub>S value is 6.8 mg/ Nm<sup>3</sup> against the norm of 10 mg/Nm<sup>3</sup>.</b></p> <p>The APPCB reports recording these values is filed as <b>ANNEXURE - 10.</b></p> <p>6) The H<sub>2</sub>S values of samples collected by NABL accredited 3<sup>rd</sup> party <b>M/S. Glens Innovation Lab Pvt. Ltd on 07.07.2023, 12.12.2023 &amp; 14.12.2023</b> are within the norms.</p> <p><b>Rotary Lime Kiln - 1 H<sub>2</sub>S values are 9.1 mg/ Nm<sup>3</sup> &amp; 8.0 mg/ Nm<sup>3</sup> respectively against the norm of 10 mg/Nm<sup>3</sup>.</b></p> <p><b>Rotary Lime Kiln - 2 H<sub>2</sub>S value is 8.5 mg/ Nm<sup>3</sup> &amp; 7.2 mg/ Nm<sup>3</sup> respectively against the norm of 10 mg/Nm<sup>3</sup>.</b></p> <p>The reports of said 3<sup>rd</sup> party recording these values are filed as <b>ANNEXURE - 11.</b></p>
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		7) NABL accredited 3 <sup>rd</sup> party is testing the samples once in a month and the H2S values are within the norms. The 3 <sup>rd</sup> party test reports of last three months are filed herewith as <b>ANNEXURE - 12.</b>
Page No : 22 S. No : 18 Point No : iv	To calibrate and operate the OCEMS installed for monitoring particulate matter emissions, properly and record the actual concentrations.	Annual Calibration schedule is in place for once in a quarter. The recent calibration of OCEMS is herewith filled as <b>ANNEXURE - 13. The calibration reports indicates which are in the acceptable range.</b>  <b>It is also proposed to carry out performance Audit calibration of the OCEMS</b> by taking the services of a reputed 3 <sup>rd</sup> party M/s. Glen Labs. Placing service order is under progress by the end of FEB.2023. <b>The said service PO is filled as ANNEXURE - 14.</b>
Page No : 22 S. No : 18 Point No : v	To reduce the temperature of the effluent to less than 35°C prior to microbial treatment	Refurbishment of Cooling Tower undertaken on 29.07.2019 and submitted report to APPCB.  <b>Further</b> , in order to achieve 35 deg.c as per APPCB direction, the below action has been initiated and completed.  100 % renovation of Cooling Tower undertaken with at <b>a cost of Rs.73.714 Lacs</b> to reduce effluent temperatures before going to microbial aeration treatment.  <ul style="list-style-type: none"> <li>• Increase Fan capacity from 50 HP to 100 HP</li> <li>• Fan wings increased from 4 no's to to 8 no's.</li> <li>• Increased heat transfer surface area</li> <li>• Replacement of drip eliminators.</li> <li>• Modification distribution arrangement of</li> </ul>

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		<p>effluent from spray nozzles.</p> <ul style="list-style-type: none"> <li>Strengthening of total civil structure.</li> </ul> <p>Civil mechanical works have been completed and <b>was commissioned in the 3<sup>rd</sup> week of August, 2023.</b></p> <p>The compliance report submitted to APPCB are filed herein as <b>ANNEXURE - 15.</b></p>												
<p>Page No: 12 S. No : 18 Point No : vi</p>	<p>To develop greenbelt in 33% of the total land area of the Industry to mitigate effects of fugitive emissions.</p>	<p>During this rainy season from June to Aug.23, approximately 600 saplings (KADAMBA, NEEM &amp; ASHOKA) have been planted in 1.00 Acre across the premises.</p> <table border="1"> <tr> <td>1</td> <td><b>Total Land area</b></td> <td><b>198.09</b></td> </tr> <tr> <td>2</td> <td><b>Buildings, roads &amp; walkways</b></td> <td><b>40.29</b></td> </tr> <tr> <td>3</td> <td><b>Wood storage, truck parking and open area</b></td> <td><b>91.8</b></td> </tr> <tr> <td>4</td> <td><b>Green Belt</b></td> <td><b>66</b></td> </tr> </table> <p>The current break is as below:</p> <p><b>Now the present green belt is 33.3 %.</b> The photographs of the Plantations are <b>attached as ANNEXURE - 16.</b></p>	1	<b>Total Land area</b>	<b>198.09</b>	2	<b>Buildings, roads &amp; walkways</b>	<b>40.29</b>	3	<b>Wood storage, truck parking and open area</b>	<b>91.8</b>	4	<b>Green Belt</b>	<b>66</b>
1	<b>Total Land area</b>	<b>198.09</b>												
2	<b>Buildings, roads &amp; walkways</b>	<b>40.29</b>												
3	<b>Wood storage, truck parking and open area</b>	<b>91.8</b>												
4	<b>Green Belt</b>	<b>66</b>												
<p>Page No : 12 S. No : 18 Point No : vii</p>	<p>To install two Continuous Ambient Air Quality Monitoring Stations in addition to the existing two CAAQM Stations and ensure operation of all the four CAAQM Stations.</p>	<p>1) Continuous Ambient air quality monitoring stations (CAAQMS) of 2 nos. installed at the periphery of the premises, i.e., Near the ETP (South-west) and at the Godavari House terrace (South-east) of the mill boundaries. Data connected to PCB site to monitor PM10, PM 2.5, SO<sub>2</sub>, NO<sub>x</sub> &amp; VOC.</p> <p>2) Out above two, recently one of the AAQMS i.e Godavari Terrace ( south - West) analyzers replaced with new analyzers and</p>												

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		<p>commissioned with an estimated <b>capital cost of Rs.35.0 Lacs</b>. The data uploading to APPCB website was started on 23.08.2023. The screenshots of the Data uploading are filed herewith as <b>ANNEXURE-17</b> and the photographs thereof are filed herewith as <b>ANNEXURE - 18</b>.</p> <p>3) As recommended by CPCB and as per compliance of EC conditions, propose to install additional 2 nos. of AAQMs by the end of 28.02.2024. Order placed to vendor for supply and installation and the copy of the purchase order is filed herewith as <b>ANNEXURE - 19</b>.</p>
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**M. Sura Reddy**  
**Sr. Vice President (Operations) & Factory Manager**



**02.01.2024**

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GOVERNMENT OF ANDHRA PRADESH  
REVENUE DEPARTMENT

From:  
The Chief Commissioner of  
Land Administration & Special  
Chief Secretary to Govt. Andhra Pradesh,  
HYDERABAD.

To  
The Principal Secretary to Govt.  
Revenue (Assign II) Department,  
Andhra Pradesh Secretariat,  
HYDERABAD (W.E).

CCLA's Lr. No. Assign-II (2) / 990 / 2008. Dt. 14-08-2014.

Sir,

Sub: LAND – East Godavari District – Lease of renewal of Turupulanka and sand shoals in River Godavari measuring an extent of Ac.612.71 cents in Rajahmundry (village) and (M) requested for lease a further period of (10) years from 01.07.1999 to 30.06.2009 – the proposal is placed before the APLMA for necessary action - Reg.

- Ref: 1. Government Memo.No.46260/Assn.VI/99-8, Revenue (Assn.VI) Department, Dated: 13.06.2008.  
2. C.C.LA's Ref.No.SPLB2/990/2008, Dated: 05.07.2008.  
3. Memo.No.15-1-08-613/613/ID, Dt: 01.10.2008 of Commr. of Industries, Hyderabad.  
4. Collector, East Godavari District Ref.No.E1/2386/2003, Dt: 24.10.08.  
5. Minutes of the Meeting of APLMA held on 22.7.2014 vide SI.No.11

-00-

Kind attention of the Government is invited to the references cited.

Earlier, the Government have issued orders vide G.O.Ms.No.810 Revenue (Assn.I) Department, Dated: 04.08.1992 granting lease in an extent of Ac. 612.71 cents situated in Turupulanka and sand shoals in River Godavari to A.P. Paper Mills, Rajahmundry for discharge of its treated industrial effluents for a period of 10 years with effect from 1.7.1989 or till the completion of dedicated drain whichever is earlier in favour of A.P. Paper Mills Limited, Rajahmundry at the rate of Rs.300/- per acre per annum.

Subsequently, the Collector, East Godavari district in his reference No. E1/3517/95, dated: 02.06.1999 has submitted proposals directly to the Government for extension of lease for a period of (10) years i.e., from 01.07.1999 to 30.06.2009 @ Rs.525/- per acre per annum (Rupees Five hundred and twenty five only) and increase of lease of lands leased out for Non-Agricultural Purpose @ 10% per annum, as the existing lease has expired by 30.06.1999.

The Collector, East Godavari District in his reference dated: 9/2002 has furnished a calculation sheet on fixation of lease rent with effect from 01.07.1999 to 30.06.2009 and the same was sent to Government.

The Collector, East Godavari District in his reference dated: 24.10.2008 has submitted a detailed report informing that after obtaining estimates from the Zonal Manager, A.P.I.I.C. Kakinada an amount of Rs.160.00 Crores may be required for execution of the dedicated drain from (1) Rajahmundry to Avularamanda (2) Maredubaka to Tallarevu (for formation of dedicated drain).

Vide D.O.Lr.No.15-1-2008-1272-1272-ID, Dated: 18.08.2009, the Commissioner of Industries has informed that important issues that are likely to come up in the State Investment Promotion Board Meeting for discussion on the issue pertaining to Andhra Pradesh Paper Mills i.e., continuation of lease on long term basis for an extent of Ac.612.71 cents and Sand Shoals in the river bed of Godavari for a period of (50) years at existing rates.

Vide C.C.LA's Lr.No.Spl.B2/990/2008, DATED: 21.08.2009 a factual report was sent to the Commissioner of Industries, Hyderabad requesting the Commissioner of Industries, Hyderabad to appraise the above facts to the Government for taking further necessary action in the matter.

The proposal of the Collector, East Godavari District has been placed before the APLMA in the meeting held on 22.7.2014 for taking a decision in the matter.

The Director, Government Relations & Regulatory Affairs International Paper APPM Limited has attended the meeting and stated that the last lease rental fixed by the State Revenue Department was @ Rs. 300/- per acre per year, which for 612.71 acres works out to Rs. 1,83,813/- this amount had been paid regularly by the company since the year 1999, till June 2015. Sri Rajat Kumar, Commissioner Industries explained the need to support the proposal as it is an established unit running successfully and the precondition in the GO regarding common drain construction is not relevant now as it is shelved.

The APLMA has decided to recommend the proposal to the Government for renewal of lease from 1999 to till 2009 and for a further period of 33 years in favour of the International Paper Limited, Rajahmundry, East Godavari District at 10% of the present market value as lease amount with a provision for enhancement of lease amount in a block period of 5 years. The Collector to recover the lease amounts dues from 1999 to till date and collect every year hereafter.

The proposal of the Collector, East Godavari District along with connected record and the minutes of the meeting of the APLMA held on 22.7.2014 are submitted herewith to the Government for necessary action in the matter.

Yours faithfully,  
Sd/- P.Lakshmi Narasimham,  
For Chief Commissioner.

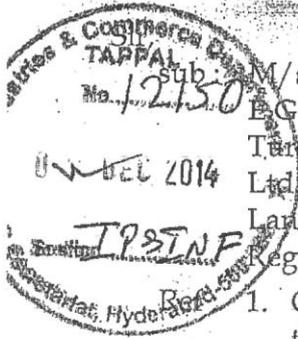
Copy to the Collector, East Godavari District.

GOVERNMENT OF ANDHRA PRADESH  
COMMISSIONERATE OF INDUSTRIES :: HYDERABAD

From The Commissioner of Industries,  
Government of Andhra Pradesh,  
Chirag Ali Lane, Abids,  
Hyderabad.

To The Principal Secretary to Government,  
Industries and Commerce Department,  
Government of Andhra Pradesh,  
Secretariat, Hyderabad..

Lr. No. 29/1/2014/14744 dated : 29/11/2014



sub: M/s. International Paper Mills Ltd., (AP Paper Mills Ltd.) Rajahmundry, E.G District - Renewal of the lease of Lanka land of Acs. 612.71Cts at Turupulanka and sand shoals in River Godavari in favour of AP Paper Mills Ltd, for a further period - Genuineness of the requirement of Government Land and Justification report in Annexure-XI -Remarks - Submitted - Regarding.

1. Government Memo No. 9098/IP&INF/A3/2014, Dated 26/09/2014 of the Deputy Secretary to Government, Industries and Commerce department.
2. Lr. No. 862/A1/2012, Dated 07/11/2014 of the General Manager, District Industries Centre, Kakinada, East Godavari District.

&&&&&

In the reference 1<sup>st</sup> cited, the Deputy Secretary to Government, Industries and Commerce department has forwarded the proposal of M/s. International Paper Mills Ltd., (AP Paper Mills Ltd.) Rajahmundry, E.G District and requested to place the matter before the sub-committee and examine the extent of requirement of the land, period of lease to be granted further to the said company apart from treating the already expired period from 1-7-1999 to 30-6-2009 as lease period, in terms of the Land Allotment Policy issued in G.O. Ms. No. 571 Revenue (Assn-I) Department, dated 14/09/2012.

In the 2<sup>nd</sup> reference cited, the General Manager, District Industries Centre, Kakinada, East Godavari District has informed that he has inspected the site along with Deputy Director (Credit) of his office and found that the unit is working satisfactorily and collected the following information from the units.

1. Details of lease rent paid by the company with evidence from July, 1999 to June, 2015 with supporting documents.
2. IT returns for the last three years i.e., from 2011-12 to 2013-14.
3. Sketch of Turupulanka lands.
4. Letter from Min. of Env. & Forests, Govt. of India.
5. Valid CFO from APPCB.

Further, the GM is informed that the said land of extent Ac.612.71 cents in the Village Turupulanka and sand shoals in the River Godavari is already being utilized by the unit A.P. Paper Mills for discharge of treated Industrial effluents since 1969 and the lease proposal of the above said lands has been further extended up to

30/06/1999 through various Government orders. The unit has paid lease rent as fixed vide G.O Ms.No.810 till 30/06/2015 and recommended for renewal of the lease from 1999 to 2009 and for a further period of 33 years in favour of the unit as per the recommendation of APLMA.

Therefore it is recommended to Government to consider the request of the unit for renewal of lease period from 1999 to 2009 and for further period of 33 years as per the recommendation of the APLMA at 10 % of present market value as lease amount with provision for enhancement of lease amount in a block period of 5 years.

Sd/- Rajat Kumar,  
Commissioner of Industries.

// Attested //

  
Joint Director (INF)



Ref.(B)35/2016, dated 18.03.2023.

Tahsildar's Office,  
Rajamahendravaram Urban.

From:  
Sri V.Suswagatham,  
Tahsildar,  
Rajamahendravaram Urban.

To  
The Vice President (Operations),  
& Mill Manager, Andhra Paper Ltd.,  
Rajamahendravaram.

Sir,

Sub: Lease - Rajamahendravaram Urban Maridal - Request to provide boat for Survey team - Renewal of Lanka Land measuring an extent of Ac.612.71cts lease to APPM, Rajamahendravaram - Regarding.

Ref: Instructions of the Revenue Divisional Officer, Rajamahendravaram, dated .03.2023.

@@@

I invite your attention to the reference cited, wherein the Revenue Divisional Officer, Rajamahendravaram has directed to furnish Renewal of Lanka Land measuring an extent of Ac.612.71cts lease to APPM, Rajamahendravaram.

In this connection, it is hereby requested provide a boat for Survey team to survey the Lanka land proposed for lease to APPM, Rajamahendravaram on 20.03.2023.

Yours faithfully,

  
Tahsildar,  
Rajamahendravaram Urban.

Copy submitted to the Revenue Divisional Officer, Rajamahendravaram for favour of information.

Copy submitted to the Collector, East Godavari District, Rajamahendravaram for favour of information.

o/c

Annex 4-4

Lr.No : APL/ENV/2023/12-604

Date: 06.12.2023

The Hon'ble District Collector & Magistrate  
East Godavari District,  
Rajamahendravaram.

**Subject: Andhra Paper Limited, Rajamahendravaram - Turupulanka Island Land Lease –  
Renewal request No. 4 – Regarding**

- REF :1) APIIC Lr.No : PM/KPU/APIIC/101/97, dt.21.02.2014  
2) Revenue Department Lr.No : Assign-II(2)/990/2008, dt.14.08.2014  
3) Commissionerate of Industries Lr.No: 29/1/2014/14744, dt.29.11.2014  
4) APPCB Directions to Andhra Paper Limited under various orders.  
5) APL letter no: APL/ENV/2023/07-574, dated 29.07.2023.  
6) **APL letter no: APL/ENV/2023/09-582, dated 16.09.2023.**  
7) **Meeting with Hon'ble District Collector by Our Executive Director on 26.09.2023**  
8) APL letter no: APL/ENV/2023/10-589, dated 16.10.2023 Follow Up letter – 2  
9) APL letter no: APL/ENV/2023/11-596, dated 20.11.2023 Follow Up letter – 3

Respected Madam

Your kind attention is invited to the references cited above.

In continuation to our office letter no: APL/ENV/2023/07-574, 09-574 cited under and further follow-up letters nos. 1,2 & 3 once again we would like to bring to your kind notice that :

Earlier, the Government have issued orders vide G.O.Ms.No : 810 Revenue (Assignment.I) Department , dated : 04.08.1992 granted lease in an extent of Ac.612.71 cents situated in Turupulanka and sand shoals in the River Godavari to Andhra Paper Limited, Rajamahendravaram for discharge of its treated effluents for a period of 10 years with effect from 01.07.1989 at the rate of Rs.300/- per acre per annum. The said lease rental amount works out to Rs.1,83,813/- per annum had been paid regularly by the company till June 2022. Andhra Paper Limited approached Government for necessary renewals on long-term basis, an established industry and running successfully.

1) **The APLMA has recommended** the proposal to the Government for renewal of lease **from 1999 to till 2009 and for a further period of 33 years** in favour of Andhra Paper as per reference cited no.2

2) **Further Commissioner of Industries also recommended** the proposal to the Industries & Commerce Department for renewal of lease from 1999 to till 2009 and for a further period of 33 years in favour of Andhra Paper as per reference cited no.3 with direction to fix revised lease rentals as per prevailing policies of Government.

**ANDHRA PAPER LIMITED**

(Corporate Identity Number: L21010AP1964PLC001008)

Regd. Office: Rajamahendravaram – 533 105, East Godavari District, India. Tel: +91-883-2471831

Corp. Office: 31, Chowringhee Road, Park

Street, Kolkata – 700 016, India. Tel: +91-33-71500500

Website: [www.andhrpaper.com](http://www.andhrpaper.com); Email: [info@andhrpaper.com](mailto:info@andhrpaper.com)

An ISO 9001:2015, ISO 14001: 2015, ISO 45001: 2018 and FSC® Certified Company

(FSC® - C084811, FSC® - C119477 & FSC® - C112308)

3) **Committee headed by Sub- Collector inspected Turupulanka on 28.09.2016** for fixation of lease amount as per directions of the then Hon'ble District Collector.

**Subsequently, Turupulanka land survey conducted by Office of The Tahsildar – Rajamahendravarm Urban on 20.03.2023**, as per Hon'ble District Collector directions and we came to understand that, the said report had been submitted to District Collector's office. **APPCB took note of the status of directions** issued to Andhra Paper on "Renewal of Turupulanka Land lease" during its External Advisory Committee and other review meetings and through its orders / directions. APPCB and other regulatory authorities, while applying for renewal of permissions and licenses always treat this as noncompliance.

**Your good office is also aware of the matter as our Executive Director brought it to your kind notice several times & most recently on 26.09.2023.**

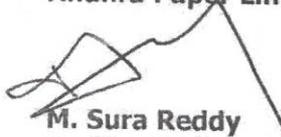
**Support to obtain Renewal Order of Turupulanka Lease at the earliest.**

For your ready reference, we attach herewith copies of the relevant documents cited above.

Thanking you

Yours Sincerely

Andhra Paper Limited – Unit: Rajamahendravaram



M. Sura Reddy  
Sr. Vice President (Operations) & Factory Manager



11:50 PM

- CC:
1. Member Secretary – APPCB, Board Office – For Kind Information
  2. Environmental Engineer – APPCB, Regional – For information
  3. The Principal Secretary - Commerce & Industries
  4. The Commissioner of Industries
  5. The Chief Commissioner of Land Administration
  6. The Principal Secretary to Govt. Revenue (Assign II) Department

## ANDHRA PAPER LIMITED

(Corporate Identity Number: L21010AP1964PLC001008)

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Corp. Office: 31, Chowringhee Road, Park

Street, Kolkata – 700 016, India. Tel: +91-33-71500500

Website: [www.andhrapaper.com](http://www.andhrapaper.com); Email: [info@andhrapaper.com](mailto:info@andhrapaper.com)

An ISO 9001:2015, ISO 14001: 2015, ISO 45001: 2018 and FSC® Certified Company

(FSC® - C084811, FSC® - C119477 & FSC® - C112308)

*Annexure-5*

**Purchase Order**

<b>Supplier</b>		<b>PO Number</b>		<b>PO Date</b>	
Vendor Code: 200246460 KC COTTRELL ENGG SERVICES P LTD GSTN - 33AAHCK5828Q1ZX RR TOWER 4,A16&A17,THIRU-VI-KA, INDUSTRIAL ESTATE,GUINDY CHENNAI - 600032 India  Attn: R.Singaravelu Phone: 9840979863		13792446		14 AUG 2023	
<b>Ship-To and Bill-To Address</b>					
		ANDHRA PAPER LIMITED Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari 533105 India			
<b>Instructions</b>			<b>Buyer Contact Details</b>		
All other terms & conditions as per our Company's Standard Terms & Conditions of Purchase. Necessary Test report and Dimension report to accompany where applicable. 'Original for Buyer' and 'Duplicate for Transporter' Invoice should accompany goods.			Buyer: Surjya Kanta Basantia Tel: 08832562969 Fax: 08832562969 E-mail: Surjya.Basantia@andhrapaper.com		
<b>Supplier Reference</b>			<b>Agreement Reference</b>		
As Per Contract NO: MSA-56-2023 DT: 21st June 2023					
<b>Mode of Dispatch</b>			<b>Freight</b>		<b>Shipment terms</b>
Through Any Suitable Mode			Paid Basis		DAP Rajahmundry
<b>Payment terms</b>			<b>Insurance</b>		
As Per Contract NO: MSA-56-2023 DT: 21st June 2023			TO YOUR ACCOUNT		

Item	Item Description	Quantity	UoM	Unit Price (INR)	Total Value	Delivery Date
1	T734000005349 FIELD INTERNALS, 1-4 W/ I/L, O/L DUCT AND ECO O/L DUCT TO DTPA F/ RB4 ESP-3 IN: Integrated GST Ship to address: Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari 533105 India	1.000	SET	68000000.00	68000000.00	15 MAR 2024
			%	18	12240000.00	
2	DISMLG & EREC OF ESP-3 FIELD 1-4 INTERNA 3000266 MECHANICAL, REPAIR & MAINT WORKS - AU IN: Integrated GST-ND Ship to address: Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari	1.000	AU	38,000,000.00	38000000.00	20 APR 2024
			%	18	6840000.00	

Registered Office:  
**ANDHRA PAPER LIMITED**  
 Sriram Nagar - Rajamahendravaram  
 East Godavari District  
 Andhra Pradesh, India.  
[www.andhrapaper.com](http://www.andhrapaper.com)

## Purchase Order ( Continued )

Instructions		Buyer Contact Details				
All other terms & conditions as per our Company's Standard Terms & Conditions of Purchase. Necessary Test report and Dimension report to accompany where applicable. 'Original for Buyer' and 'Duplicate for Transporter' Invoice should accompany goods.		<b>Buyer:</b> Surjya Kanta Basantia <b>Tel:</b> 08832562969 <b>Fax:</b> 08832562969 <b>E-mail:</b> Surjya.Basantia@andhrpaper.com				
Item	Item Description	Quantity	UoM	Unit Price (INR)	Total Value	Delivery Date
	533105 India					
	Total Basic			INR	106000000.00	
	Total P&F			INR	0.00	
	Total Tax			INR	19080000.00	
	Total Swachh Bharat & Krishi Kalyan Cess			INR	0.00	
	Grand Total				125080000.00	

GSTIN:37AAACT8849D1Z3

Range: RANGE V

Division: RAJAMAHENDRAVARAM

Commissionerate: VISAKHAPATNAM II

As Per Contract NO: MSA-56-2023 DT: 21st June 2023

Proposal No - KCCES-P2112267 REV # I Dated 17-06-2023

Delivery: As Per Contract NO: MSA-56-2023 DT: 21st June 2023

Warranty: As Per Contract NO: MSA-56-2023 DT: 21st June 2023

LD: As Per Contract NO: MSA-56-2023 DT: 21st June 2023

Payment Term: As Per Contract NO: MSA-56-2023 DT: 21st June 2023

Incoterm: DAP, Rajahmundry

Sub Contractor is allowed. Kindly issue gate passes to sub contractor accordingly.

1. M/s. Aircon Mechanic Engineering Service.

All Original Documents Should be sent along with material only or to below address:

To,  
 Mr. Ravi Chandra  
 Stores Department  
 Andhra Paper Limited  
 Unit- Rajahmundry  
 Sriram Nagar - East Godavari - 533105, Andhra Pradesh  
 Contact No: 0883 256 2921

Other Terms:

**Registered Office:**  
**ANDHRA PAPER LIMITED**  
**Sriram Nagar - Rajamahendravaram**  
**East Godavari District**  
**Andhra Pradesh, India.**  
**www.andhrpaper.com**



# SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

Corporate Office & Laboratory : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012.  
Hyderabad: Flat No. 302, H.No. 7-1-396/B/12, Sai Ram Residency, Balkampet Road, S.R.Nagar, Hyderabad-500038.  
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Ref: SVELC/APML/23-09/05

Date: 06-10-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Coal Fired Boiler –CF6

DATE & TIME OF COLLECTION : 25-09-2023 @ 11:30 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	85
2.	Diameter of Stack	m	2.5
3.	Cross Section Area of Stack	m <sup>2</sup>	4.90
4.	Temperature @ DGM	°C	32
5.	Stack temperature	°C	149
6.	Flue Gas Velocity	m/sec	9.21
7.	Flow Rate	Nm <sup>3</sup> /hr	113971
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	38.2	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	83.9	<600	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	186	<300	IS: 11255-P-7
4.	Mercury	mg/Nm <sup>3</sup>	<0.005	<0.03	USEPA Method-29

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-09/06

Date: 06-10-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
 Rajahmundry, East Godavari,  
 Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Recovery Boiler -4

DATE & TIME OF COLLECTION : 25-09-2023 @ 12:15 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	90
2.	Diameter of Stack	m	3.5
3.	Cross Section Area of Stack	m <sup>2</sup>	9.61
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	158
6.	Flue Gas Velocity	m/sec	9.74
7.	Flow Rate	Nm <sup>3</sup> /hr	231450
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	35.2	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	96.7	<600	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	172	<300	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.11	--	USEPA Method-11
4.	Mercury	mg/Nm <sup>3</sup>	<0.005	<0.03	USEPA Method-29

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-09/07

Date: 06-10-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-1

DATE & TIME OF COLLECTION : 25-09-2023@ 13:00 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	136
6.	Flue Gas Velocity	m/sec	9.08
7.	Flow Rate	Nm <sup>3</sup> /hr	26735
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	41.7	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	86.2	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	276	<500	IS:11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.1	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-09/08

Date: 06-10-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
 Rajahmundry, East Godavari,  
 Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-2

DATE & TIME OF COLLECTION : 25-09-2023 @ 14:00 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	32
5.	Stack temperature	°C	124
6.	Flue Gas Velocity	m/sec	9.37
7.	Flow Rate	Nm <sup>3</sup> /hr	28423
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	39.1	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	66.4	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	216	<500	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	3.9	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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SV ENVIRO LABS & CONSULTANTS



# SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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Ref: SVELC/APML/23-10/05

Date: 04-11-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Coal Fired Boiler - CF6

DATE & TIME OF COLLECTION : 25-10-2023 @ 11:00 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	85
2.	Diameter of Stack	m	2.5
3.	Cross Section Area of Stack	m <sup>2</sup>	4.90
4.	Temperature @ DGM	°C	32
5.	Stack temperature	°C	145
6.	Flue Gas Velocity	m/sec	8.6
7.	Flow Rate	Nm <sup>3</sup> /hr	107441
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	35.7	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	80.2	<600	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	179	<300	IS: 11255-P-7
4.	Mercury	mg/Nm <sup>3</sup>	<0.005	<0.03	USEPA Method-29

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

  
CHECKED BY



  
SV ENVIRO LABS & CONSULTANTS



# SV ENVIRO LABS & CONSULTANTS

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Ref: SVELC/APML/23-10/06

Date: 04-11-2023

NAME AND ADDRESS : **M/s. ANDHRA PAPER MILL LIMITED.,**  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **Recovery Boiler -4**

DATE & TIME OF COLLECTION : **25-10-2023 @ 11:45 hr**

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	90
2.	Diameter of Stack	m	3.5
3.	Cross Section Area of Stack	m <sup>2</sup>	9.61
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	149
6.	Flue Gas Velocity	m/sec	9.21
7.	Flow Rate	Nm <sup>3</sup> /hr	223523
8.	Duration of Sampling	minutes	30

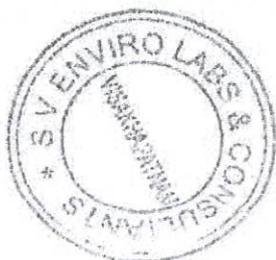
## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	33.4	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	92.5	<600	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	167	<300	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	3.76	--	USEPA Method-11
4.	Mercury	mg/Nm <sup>3</sup>	<0.005	<0.03	USEPA Method-29

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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*[Signature]*



SV ENVIRO LABS & CONSULTANTS

*[Signature]*



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(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

Corporate Office & Laboratory : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012.  
Hyderabad: Flat No. 302, H.No. 7-1-396/B/12, Sai Ram Residency, Balkampet Road, S.R.Nagar, Hyderabad-500038.  
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Ref: SVELC/APML/23-10/07 Date: 04-11-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-1

DATE & TIME OF COLLECTION : 25-10-2023@ 12:30 hr

### TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height		60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	130
6.	Flue Gas Velocity	m/sec	8.4
7.	Flow Rate	Nm <sup>3</sup> /hr	25101
8.	Duration of Sampling	minutes	30

### EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	38.6	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	83.5	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	261	<500	IS:11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	3.9	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-10/08

Date: 04-11-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
 Rajahmundry, East Godavari,  
 Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-2

DATE & TIME OF COLLECTION : 25-10-2023 @ 13:00 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	127
6.	Flue Gas Velocity	m/sec	9.0
7.	Flow Rate	Nm <sup>3</sup> /hr	27096
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	36.4	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	63.2	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	225	<500	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	3.9	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-11/06

Date: 01-12-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Coal Fired Boiler - CF6

DATE & TIME OF COLLECTION : 24-11-2023 @ 11:15 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	85
2.	Diameter of Stack	m	2.5
3.	Cross Section Area of Stack	m <sup>2</sup>	4.90
4.	Temperature @ DGM	°C	32
5.	Stack temperature	°C	151
6.	Flue Gas Velocity	m/sec	9.3
7.	Flow Rate	Nm <sup>3</sup> /hr	114542
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	39.1	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	84.2	<600	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	185	<300	IS: 11255-P-7
4.	Mercury	mg/Nm <sup>3</sup>	<0.005	<0.03	USEPA Method-29

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-11/07

Date: 01-12-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Recovery Boiler -4

DATE & TIME OF COLLECTION : 24-11-2023 @ 12:00 hr

## TEST REPORT

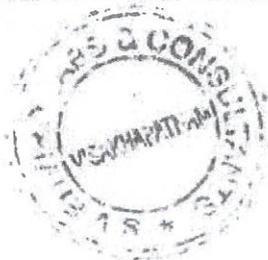
S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	90
2.	Diameter of Stack	m	3.5
3.	Cross Section Area of Stack	m <sup>2</sup>	9.61
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	154
6.	Flue Gas Velocity	m/sec	9.68
7.	Flow Rate	Nm <sup>3</sup> /hr	232179
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	35.7	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	94.8	<600	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	173	<300	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.25	--	USEPA Method-11
4.	Mercury	mg/Nm <sup>3</sup>	<0.005	<0.03	USEPA Method-29

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-11/08

Date: 01-12-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-1

DATE & TIME OF COLLECTION : 24-11-2023@ 12:45 hr

## TEST REPORT

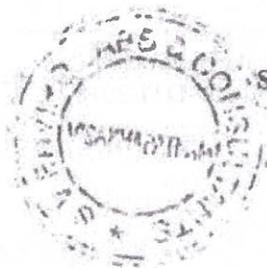
S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	137
6.	Flue Gas Velocity	m/sec	9.0
7.	Flow Rate	Nm <sup>3</sup> /hr	26435
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	42.5	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	85.9	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	272	<500	IS:11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.3	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-11/09

Date: 01-12-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-2

DATE & TIME OF COLLECTION : 24-11-2023 @ 13:30 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	<sup>o</sup> C	33
5.	Stack temperature	<sup>o</sup> C	130
6.	Flue Gas Velocity	m/sec	9.4
7.	Flow Rate	Nm <sup>3</sup> /hr	28090
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	39.5	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	67.1	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	218	<500	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.2	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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ANDHRA PRADESH POLLUTION CONTROL BOARD  
ZONAL LABORATORY, VISAKHAPATNAM

D.No.39-33-20/4, Behind RTA Office, Madhavadhara VUDA Colony,  
Visakhapatnam – 530 018.

M. RAVI, M.Sc  
SENIOR ENVIRONMENTAL SCIENTIST

Ph :0891- 2719380/ 481  
e-mail:zovsplab-ses2@appcb.gov.in

Annexure-7  
120

FORM – IV  
REPORT BY THE STATE BOARD ANALYST  
[See Rule-14]

Report No. 2023 – 05 – ST – 001

Date:09.05.2023

I hereby certify that I M. Ravi (I) State Board Analyst duly appointed under sub-section (3) of Section 26 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack emission sample of M/s Andhra Paper Ltd., (Unit: Sriramnagar), Rajamahendravaram, East Godavari District from the Stack attached to 1 X 105 TPH Coal Fired Boiler along with 34MW Turbine collected on 02.05.2023 and received on the day of 03.05.2023 from Junior Scientific Officer, Regional Office, Kakinada for analysis.

The sample was in a condition fit for analysis as reported below:

I further certify that I have analyzed the above mentioned sample from 03.05.2023 to 09.05.2023 and declare the result of the analysis to be as follows: -

S.No.	Sample No.	Parameters	Value (mg/Nm <sup>3</sup> )	Standard (mg/Nm <sup>3</sup> )
1.	2023-05-ST-001	Particulate Matter (PM)	38.7	50.0

The condition of the seals, fastening and container on receipt was intact.  
The results related to sample tested.

**Remarks of monitoring officials:**

1. During Stack monitoring, boiler is operating with 90TPH Capacity.
2. ESP is provided as air pollution control equipment is in operation during stack monitoring.

Signed this:09.05.2023.

Address:  
M. Ravi,  
Senior Environmental Scientist,  
Zonal Laboratory,  
APPCB, Visakhapatnam

  
SIGNATURE OF THE STATE BOARD ANALYST



**ANDHRA PRADESH POLLUTION CONTROL BOARD**  
**ZONAL LABORATORY, VISAKHAPATNAM**

D.No.39-33-20/4, Behind RTA Office, Madhavadhara VUDA Colony,  
 Visakhapatnam – 530 018.

M. RAVI, M.Sc  
 SENIOR ENVIRONMENTAL SCIENTIST

Ph :0891- 2719380/ 481  
 e-mail:zovsplab-ses2@appcb.gov.in

**FORM – IV**  
**REPORT BY THE STATE BOARD ANALYST**  
**[See Rule-14]**

**Report No. 2023 – 05 – ST – 002**

**Date:09.05.2023**

I hereby certify that I M. Ravi (I) State Board Analyst duly appointed under sub-section (3) of Section 26 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack emission sample of M/s Andhra Paper Ltd., (Unit: Sriramnagar), Rajamahendravaram, East Godavari District from the Stack attached to 1 X 1300 TPD Recovery Boiler collected on 02.05.2023 and received on the day of 03.05.2023 from Junior Scientific Officer, Regional Office, Kakinada for analysis.

The sample was in a condition fit for analysis as reported below:

I further certify that I have analyzed the above mentioned sample from 03.05.2023 to 09.05.2023 and declare the result of the analysis to be as follows: -

S.No.	Sample No.	Parameters	Value (mg/Nm <sup>3</sup> )	Standard (mg/Nm <sup>3</sup> )
1.	2023-05-ST-002	Particulate Matter (PM)	40.4	50.0

The condition of the seals, fastening and container on receipt was intact.  
 The results related to sample tested.

**Remarks of monitoring officials:**

1. During Stack monitoring Recovery Boiler is in operation.
2. ESP 3 No.s provided as air pollution control equipment is in operation during stack monitoring.

Signed this:09.05.2023.

Address:  
 M. Ravi,  
 Senior Environmental Scientist,  
 Zonal Laboratory,  
 APPCB, Visakhapatnam

  
 SIGNATURE OF THE STATE BOARD ANALYST



# GLens Innovation Labs Pvt Ltd.

NABL Accredited as per ISO17025:2017, Certified as per ISO 9001:2015 & ISO 45001:2018

## TEST REPORT

Report No. : EN23120393

Name of the Client : Andhra Paper Limited  
Address of the Client : Rajamahendravaram Mill Sriram Nagar Rajamahendravaram, East Godavari 533105  
Sample Name : Stack Emission Sampling Date : 14-Dec-2023  
Sample Description : Stack Emision Received Date : 15-Dec-2023  
Sampling Location : Coal Fired Boiler S1 Commenced On : 15-Dec-2023  
Sample Submission Type : Collected by Lab Representative Completed On : 22-Dec-2023  
Sample Condition : Good Report Date : 26-Dec-2023  
Sampling Plan and Method : GL/EN/SOP/111



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Particulate Matter	mg/Nm <sup>3</sup>	47.20	GL/EN/SOP/113	50

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

\*\*\*End of Report\*\*\*

Verified By

Authorized Signature  
E. PRITHIVIRAJAN  
LAB MANAGER

GLENS INNOVATION LABS Pvt Ltd, #C/1,1 St Floor, Sri Jothi Complex Murugesan Street, Balavirayagar Nagar, Anumbakkam Chennai 600106

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- \* A Satisfactory test report in no way implies that the product tested is approved by NABL.
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## TEST REPORT

Report No. : EN23120396

Name of the Client : Andhra Paper Limited  
Address of the Client : Rajamahendravaram Mill Sriram Nagar Rajamahendravaram, East Godavari 533105  
Sample Name : Stack Emission Sampling Date : 12-Dec-2023  
Sample Description : Stack Emision Received Date : 15-Dec-2023  
Sampling Location : Recovery Boiler Commenced On : 15-Dec-2023  
Sample Submission Type : Collected by Lab Representative Completed On : 22-Dec-2023  
Sample Condition : Good Report Date : 26-Dec-2023  
Sampling Plan and Method : GL/EN/SOP/111



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Particulate Matter	mg/Nm <sup>3</sup>	44.0	GL/EN/SOP/113	50

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

\*\*\*End of Report\*\*\*

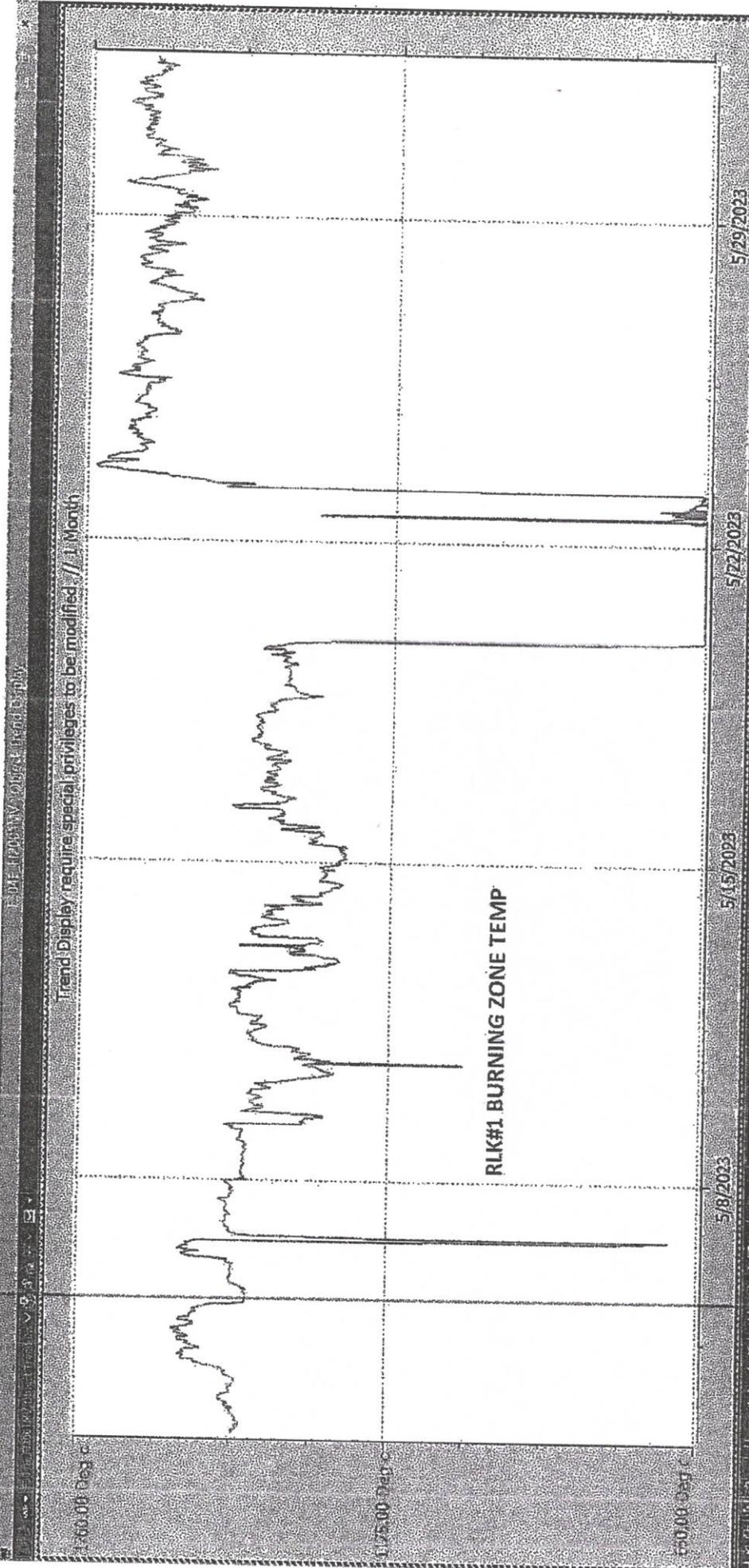
  
Verified By

  
Authorized Signature  
E. PRITHIVIRAJAN  
LAB MANAGER

GLENS INNOVATION LABS Pvt Ltd, #5/1,1 St Floor, Sri Jothi Complex Murugesan Street, Behravinayagar Nagar, Arumbakkam Chennai 600106

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Trend Display require special privileges to be modified // 1 Month

RLK#1 BURNING ZONE TEMP

Object Name	Object Description	Aspect	Property	Unit	Current Val	Low Range	High Range	Raw Offset	Style	Units Time	Filter Value	Mean Value	Min Value	Max Value	Property Description
EDIE FREQ01AV	Burning Zone Temp	Linear	Temp	°C	127.42	100.00	150.00	0.00	Linear	1/10	0.00	137.03	105.00	150.00	Temp
EDIE FREQ02AV	Burning Zone Temp	Linear	Temp	°C	118.0	100.00	150.00	0.00	Linear	1/10	0.00	126.6	105.00	150.00	Temp
EDIE FREQ03AV	Burning Zone Temp	Linear	Temp	°C	112.0	100.00	150.00	0.00	Linear	1/10	0.00	112.0	105.00	150.00	Temp
EDIE FREQ04AV	Burning Zone Temp	Linear	Temp	°C	108.0	100.00	150.00	0.00	Linear	1/10	0.00	108.0	105.00	150.00	Temp

ENG 10:47 AM  
RTL 5/17/2023





ANDHRA PRADESH POLLUTION CONTROL BOARD  
ZONAL LABORATORY, VISAKHAPATNAM

D.No.39-33-20/4, Behind RTA Office, Madhavadhara VUDA Colony,  
Visakhapatnam – 530 018.

M. RAVI, M.Sc  
SENIOR ENVIRONMENTAL SCIENTIST

Ph :0891- 2719380/ 481  
e-mail:zovsplab-ses2@appcb.gov.in

Anne Rose -  
126

**FORM - IV**  
**REPORT BY THE STATE BOARD ANALYST**  
[See Rule-14]

**Report No. 2023 – 05 – ST – 003**

**Date:09.05.2023**

I hereby certify that I M. Ravi (I) State Board Analyst duly appointed under sub-section (3) of Section 26 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack emission sample of M/s Andhra Paper Ltd., (Unit: Sriramnagar), Rajamahendravaram, East Godavari District from the Stack attached to 1 X 100 TPD Rotary Lime Kiln-1 collected on 02.05.2023 and received on the day of 03.05.2023 from Junior Scientific Officer, Regional Office, Kakinada for analysis.

The sample was in a condition fit for analysis as reported below:

I further certify that I have analyzed the above mentioned sample from 03.05.2023 to 09.05.2023 and declare the result of the analysis to be as follows: -

S.No.	Sample No.	Parameters	Value (mg/Nm <sup>3</sup> )	Standard (mg/Nm <sup>3</sup> )
1.	2023-05-ST-003	Particulate Matter (PM)	25.1	50.0
		H <sub>2</sub> S	7.0	10.0

The condition of the seals, fastening and container on receipt was intact.  
The results related to sample tested.

**Remarks of monitoring officials:**

1. During Stack monitoring Rotary Lime Kiln-1 is in operation.
2. ESP is provided as air pollution control equipment and is in operation during stack monitoring.

Signed this:09.05.2023.

Address:  
M. Ravi,  
Senior Environmental Scientist,  
Zonal Laboratory,  
APPCB, Visakhapatnam

  
SIGNATURE OF THE STATE BOARD ANALYST



**ANDHRA PRADESH POLLUTION CONTROL BOARD  
ZONAL LABORATORY, VISAKHAPATNAM**

D.No.39-33-20/4, Behind RTA Office, Madhavadhara VUDA Colony,  
Visakhapatnam – 530 018.

M. RAVI, M.Sc  
SENIOR ENVIRONMENTAL SCIENTIST

Ph :0891- 2719380/ 481  
e-mail:zovsplab-ses2@appcb.gov.in

FORM - IV  
REPORT BY THE STATE BOARD ANALYST  
[See Rule-14]

Report No. 2023 – 05 – ST – 004

Date:09.05.2023

I hereby certify that I M. Ravi (I) State Board Analyst duly appointed under sub-section (3) of Section 26 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack emission sample of M/s Andhra Paper Ltd., (Unit: Sriramnagar), Rajamahendravaram, East Godavari District from the Stack attached to 1 X 160 TPD Rotary Lime Kiln-2 collected on 02.05.2023 and received on the day of 03.05.2023 from Junior Scientific Officer, Regional Office, Kakinada for analysis.

The sample was in a condition fit for analysis as reported below:

I further certify that I have analyzed the above mentioned sample from 03.05.2023 to 09.05.2023 and declare the result of the analysis to be as follows: -

S.No.	Sample No.	Parameters	Value (mg/Nm <sup>3</sup> )	Standard (mg/Nm <sup>3</sup> )
1.	2023-05-ST-004	Particulate Matter (PM)	21.4	50.0
		H <sub>2</sub> S	6.8	10.0

The condition of the seals, fastening and container on receipt was intact.  
The results related to sample tested.

**Remarks of monitoring officials:**

1. During Stack monitoring Rotary Lime Kiln-2 is in operation.
2. ESP is provided as air pollution control equipment and is in operation during stack monitoring.

Signed this:09.05.2023.

Address:  
M. Ravi,  
Senior Environmental Scientist,  
Zonal Laboratory,  
APPCB, Visakhapatnam

  
SIGNATURE OF THE STATE BOARD ANALYST



# GLens Innovation Labs Pvt Ltd.

NABL Accredited as per ISO17025:2017, Certified as per ISO 9001:2015 & ISO 45001:2018

## TEST REPORT

Report No. : EN23120397

Name of the Client : Andhra Paper Limited  
 Address of the Client : Rajamahendravaram Mill Sriram Nagar Rajamahendravaram, East Godavari 533105  
 Sample Name : Stack Emission Sampling Date : 14-Dec-2023  
 Sample Description : Stack Emission Received Date : 15-Dec-2023  
 Sampling Location : Kiln 1 Commenced On : 15-Dec-2023  
 Sample Submission Type : Collected by Lab Representative Completed On : 22-Dec-2023  
 Sample Condition : Good Report Date : 26-Dec-2023  
 Sampling Plan and Method : GL/EN/SOP/111



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Hydrogen Sulphide as H <sub>2</sub> S	mg/Nm <sup>3</sup>	8.0	IS 11255 (Part 4):2006	10
2	Particulate Matter	mg/Nm <sup>3</sup>	32.0	GL/ EN/SOP/113	50

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

\*\*\*End of Report\*\*\*

Verified By

Authorized Signature  
E. PRITHIVIRAJAN  
LAB MANAGER

GLENS INNOVATION LABS Pvt Ltd, #5/1, 1 St Floor, Sri Jothi Complex Murugesan Street, Balavanayagar Nagar, Arumbakkam Chennai 600106

#### Terms and Conditions:

- \* The test results related only to the items tested.
- \* The test report shall not be reproduced in full or part without the written approval of Glens.
- \* The test items will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations. Page 1 of 1
- \* The Laboratory's responsibility under this report is limited to proven wilful negligence and will in no case be more than the invoiced amount.
- \* A Satisfactory test report in no way implies that the product tested is approved by NABL.
- \* Laboratory is not responsible for the authenticity of the photocopied test reports.



## TEST REPORT

Report No. : EN23120398

Name of the Client : Andhra Paper Limited  
Address of the Client : Rajamahendravaram Mill Sriram Nagar Rajamahendravaram, East Godavari 533105  
Sample Name : Stack Emission Sampling Date : 12-Dec-2023  
Sample Description : Stack Emission Received Date : 15-Dec-2023  
Sampling Location : Kiln 2 Commenced On : 15-Dec-2023  
Sample Submission Type : Collected by Lab Representative Completed On : 22-Dec-2023  
Sample Condition : Good Report Date : 26-Dec-2023  
Sampling Plan and Method : GL/EN/SOP/111



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipline: Chemical					
Group: Atmospheric Pollution					
1	Hydrogen Sulphide as H <sub>2</sub> S	mg/Nm <sup>3</sup>	7.20	IS 11255 (Part 4):2006	10
2	Particulate Matter	mg/Nm <sup>3</sup>	35.0	GL/EN/SOP/113	50

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

\*\*\*End of Report\*\*\*

  
Verified By

  
Authorized Signature

E. PRITHIVIRAJAN  
LAB MANAGER

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# Glens Innovation Labs Pvt Ltd.

NABL ACCREDITED AS PER ISO/IEC 17025 : 2017, CERTIFIED AS PER ISO 9001:2015 & ISO 45001 : 2018

## TEST REPORT

**Report No** : EN23070162 **Report Date** : 14 Jul 2023  
**Customer Name** : M/S.Andhra Paper Limited  
**Customer Address** : Rajamahendravaram, East Godavari Dist, Andhra Pradesh-533105  
**Sample Description** : Stack Emission  
**Sample No** : EN23070162  
**Sample Identification** : Rotary Line Kiln Stack-01 **Sampling Date** : 07 Jul 2023  
**Sample Condition** : Good **Sample Received on** : 08 Jul 2023  
**Sampling Procedure** : GL/EN/SOP/111 **Test Started on** : 08 Jul 2023  
**Instrument Used** : Optima Analyzer **Test Completed on** : 14 Jul 2023  
**Sample Submission type** : Lab Representative

### Test result

S.No	Test Name	Test Method	Results	Units
Discipline: Chemical				
Group: Atmospheric Pollution				
1	Hydrogen Sulphide as H <sub>2</sub> S	IS 11255 (Part 4): 2006	9.1	mg/m <sup>3</sup>
2	Particulate Matter	GL/ EN/SOP/113 (EPA 5): 1991	45.7	mg/Nm <sup>3</sup>

.....End of Report.....  
Page 1 of 1

Verified By

Authorized Signature  
 S. HARIHARA SUDHAN  
 ASSISTANT MANAGER

GLENS INNOVATION LABS Pvt Ltd, #6/1, 1 St Floor, Sri Jothi Complex Murugesan Street, Balavanayagar Nagar, Arumbakkam Chennai 600106

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# Glens Innovation Labs Pvt Ltd.

NABL ACCREDITED AS PER ISO/IEC 17025 : 2017, CERTIFIED AS PER ISO 9001:2015 & ISO 45001 : 2018

## TEST REPORT

Report No : EN23070161 Report Date : 14 Jul 2023  
 Customer Name : M/S.Andhra Paper Limited  
 Customer Address : Rajamahendravaram, East Godavari Dist, Andhra Pradesh-533105  
 Sample Description : Stack Emission  
 Sample No : EN23070161  
 Sample Identification : Rotary Line Kiln Stack-02 Sampling Date : 07 Jul 2023  
 Sample Condition : Good Sample Received on : 08 Jul 2023  
 Sampling Procedure : GL/EN/SOP/111 Test Started on : 08 Jul 2023  
 Instrument Used : Optima Analyzer Test Completed on : 14 Jul 2023  
 Sample Submission type : Lab Representative

### Test result

S.No	Test Name	Test Method	Results	Units
Discipline: Chemical				
Group: Atmospheric Pollution				
1	Hydrogen Sulphide as H <sub>2</sub> S	IS 11255 (Part 4): 2006	8.4	mg/m <sup>3</sup>
2	Particulate Matter	GL/ EN/SOP/113 (EPA 5): 1991	14.5	mg/Nm <sup>3</sup>

.....End of Report.....  
Page 1 of 1

Verified By

Authorized Signature  
S. HARIHARASUDHAN  
ASSISTANT MANAGER

GLENS INNOVATION LABS Pvt Ltd, #6/1.1 St Floor, Sri Jothi Complex Murugesan Street, Balavinayagar Nagar, Arumbakkam Chennai 600106

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# SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

Corporate Office & Laboratory : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012.  
Hyderabad: Flat No. 302, H.No. 7-1-396/B/12, Sai Ram Residency, Balkampet Road, S.R.Nagar, Hyderabad-500038.  
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Anne Xwe-12  
132

Ref: SVELC/APML/23-09/07

Date: 06-10-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-1

DATE & TIME OF COLLECTION : 25-09-2023@ 13:00 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	136
6.	Flue Gas Velocity	m/sec	9.08
7.	Flow Rate	Nm <sup>3</sup> /hr	26735
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	41.7	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	86.2	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	276	<500	IS:11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.1	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech- 160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-09/08

Date: 06-10-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
 Rajahmundry, East Godavari,  
 Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-2

DATE & TIME OF COLLECTION : 25-09-2023 @ 14:00 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	32
5.	Stack temperature	°C	124
6.	Flue Gas Velocity	m/sec	9.37
7.	Flow Rate	Nm <sup>3</sup> /hr	28423
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	39.1	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	66.4	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	216	<500	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	3.9	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-10/07

Date: 04-11-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-1

DATE & TIME OF COLLECTION : 25-10-2023@ 12:30 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height		
2.	Diameter of Stack	m	60
3.	Cross Section Area of Stack	m	1.2
4.	Temperature @ DGM	m <sup>2</sup>	1.13
5.	Stack temperature	°C	33
6.	Flue Gas Velocity	°C	130
7.	Flow Rate	m/sec	8.4
8.	Duration of Sampling	Nm <sup>3</sup> /hr	25101
		minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	38.6	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	83.5	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	261	<500	IS:11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	3.9	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

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Ref: SVELC/APML/23-10/08

Date: 04-11-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-2

DATE & TIME OF COLLECTION : 25-10-2023 @ 13:00 hr

## TEST REPORT

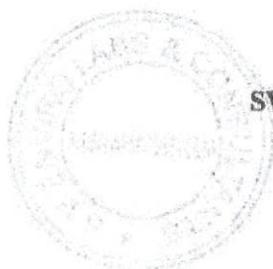
S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	127
6.	Flue Gas Velocity	m/sec	9.0
7.	Flow Rate	Nm <sup>3</sup> /hr	27096
8.	Duration of Sampling	minutes	30

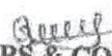
## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	36.4	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	63.2	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	225	<500	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	3.9	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

  
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Ref: SVELC/APML/23-11/08

Date: 01-12-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-1

DATE & TIME OF COLLECTION : 24-11-2023@ 12:45 hr

## TEST REPORT

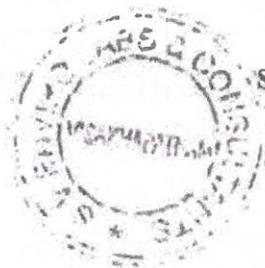
S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	137
6.	Flue Gas Velocity	m/sec	9.0
7.	Flow Rate	Nm <sup>3</sup> /hr	26435
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	42.5	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	85.9	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	272	<500	IS:11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.3	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

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(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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Ref: SVELC/APML/23-11/09

Date: 01-12-2023

NAME AND ADDRESS : M/s. ANDHRA PAPER MILL LIMITED.,  
Rajahmundry, East Godavari,  
Andhra Pradesh – 533105.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Rotary Lime Kiln-2

DATE & TIME OF COLLECTION : 24-11-2023 @ 13:30 hr

## TEST REPORT

S. No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	60
2.	Diameter of Stack	m	1.2
3.	Cross Section Area of Stack	m <sup>2</sup>	1.13
4.	Temperature @ DGM	°C	33
5.	Stack temperature	°C	130
6.	Flue Gas Velocity	m/sec	9.4
7.	Flow Rate	Nm <sup>3</sup> /hr	28090
8.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNITS	RESULT	STANDARDS	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	39.5	<50	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	67.1	<400	IS:11255-P-2
3.	Oxides of Nitrogen -NO <sub>x</sub>	mg/Nm <sup>3</sup>	218	<500	IS: 11255-P-7
4.	Hydrogen Sulphide	mg/Nm <sup>3</sup>	4.2	<10	USEPA Method-11

Instrument Used	Make	Model	Calibrated on	Calibration Due
Stack Monitoring Kit	Lata Envirotech Instruments	Lata Envirotech-160 109-DTI-2018	20-08-2023	19-08-2024

CHECKED BY



SV ENVIRO LABS & CONSULTANTS



# SWAN ENVIRONMENTAL PVT. LTD.,

(ISO 9001 : 2015 CERTIFIED)

Plot. No. 922 & 935, Swami Ayyappa Co-Op Society, Madhapur, Hyderabad - 500 081, Telangana, India.

Phone: +91-40-40216184/85, Fax: +91-40-40216183.

Email : info@swanenviron.com Website : www.swanenviron.com

## CALIBRATION CERTIFICATE

**Certificate No:** SEPL/CEMS/APL/2023/0303

**Date of Issue** : 06-12-2023

**Customer** : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

**Station name** : RB4 Stack

### Instrument Details:

**Instrument** : Online Stack Dust (SPM) Monitor

**Date of Calibration** : 30-11-2023

**Make** : Mip OY, Finland

**Due Date** : 29-02-2024

**Model** : LM3189.

**Serial No.** : 3189065

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20.0 %	20.2%	0.99%

**Accepted Tolerance:**  $\pm 2\%$

**Result:** The Calibration of above instrument is performed and it meets the acceptance criteria.

**Calibrated by:**

*P. Rajesh*  
Mr.P.Rajesh  
Engineer Service



**Reviewed by:**

*PN Mahadev*  
Mr.PN Mahadev  
Sr.Sales & Service Engineer



# SWAN ENVIRONMENTAL PVT. LTD.,

(ISO 9001 : 2015 CERTIFIED)

Plot No 922 & 935, Swami Ayyappa Co-Op Society, Madhapur, Hyderabad - 500 081, Telangana, India.

Phone: +91-40-40216184/85, Fax: +91-40-40216183.

Email : info@swanenviron.com Website : www.swanenviron.com

## CALIBRATION CERTIFICATE

Certificate No: SEPL/CEMS/APL/2023/0304 Date of Issue : 06-12-2023

Customer : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

Station name : CFB6 Stack

### Instrument Details:

Instrument : Online Stack Dust (SPM) Monitor Date of Calibration : 30-11-2023  
 Make : Mip OY, Finland Due Date : 28-02-2024  
 Model : LM3189.  
 Serial No. : 3189041.

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20.0 %	20.28%	1.4%

Accepted Tolerance:  $\pm 2\%$

Result: The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated by:

*P. Rajesh*  
 Mr.P.Rajesh  
 Engineer Service



Reviewed by:

*PN Mahadev*  
 Mr.PN Mahadev  
 Sr.Sales & Service Engineer



# SWAN ENVIRONMENTAL PVT. LTD.,

(ISO 9001 : 2015 CERTIFIED)

Plot No 922 & 935, Swami Ayyappa Co-Op Society, Madhapur, Hyderabad - 500 081, Telangana, India

Phone: +91-40-40216184/85, Fax: +91-40-40216183.

Email : info@swanenviron.com Website : www.swanenviron.com

## CALIBRATION CERTIFICATE

**Certificate No:** SEPL/CEMS/APL/2023/0301

**Date of Issue** : 06-12-2023

**Customer** : M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

**Station name** : RLK-1 Stack

### Instrument Details:

**Instrument** : Online Stack Dust (SPM) Monitor

**Date of Calibration:** 30-11-2023

**Make** : EMS Instrument

**Due Date** : 29-02-2024

**Model** : L2400

**Serial No.** : M162422

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20 %	20.05%	0.25%

**Accepted Tolerance:**  $\pm 2$  %

**Result:** The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated by:

*P. Rajesh*  
Mr.P.Rajesh  
Engineer Service



Reviewed by:

*PN Mahadev*  
Mr.PN Mahadev  
Sr.Sales & Service Engineer



# SWAN ENVIRONMENTAL PVT. LTD.,

(ISO 9001 : 2015 CERTIFIED)

Plot. No. 922 & 935, Swami Ayyappa Co-Op Society, Madhapur, Hyderabad - 500 081, Telangana, India.

Phone: +91-40-40216184/85, Fax: +91-40-40216183.

Email : info@swanenviron.com Website : www.swanenviron.com

## CALIBRATION CERTIFICATE

**Certificate No:** SEPL/CEMS/APL/2023/0302

**Date of Issue :** 06-12-2023

**Customer :** M/s. Andhra Paper Ltd., Rajahmundry, East Godavari Dist., A.P.

**Station name :** RLK-2Stack

### Instrument Details:

**Instrument :** Online Stack Dust (SPM) Monitor

**Date of Calibration :** 30-11-2023

**Make :** EMS Instrument

**Due Date :** 29-02-2024

**Model :** L2400

**Serial No. :** M162423

### Calibration Filter Details:

Details	Serial NO	Optical Density
Optical Filter	1195847	20 %

### Calibration Details :

Parameter	Span Calibration		
	Standard Optical Density	Measured Density	% of Deviation
Opacity	20 %	20.15%	0.74

**Accepted Tolerance:  $\pm 2$  %**

**Result:** The Calibration of above instrument is performed and it meets the acceptance criteria.

Calibrated by:

*P. Rajesh*

Mr.P.Rajesh  
Engineer Service



Reviewed by:

*PN Mahadev*

Mr.PN Mahadev  
Sr.Sales & Service Engineer

**Purchase Order**

<b>Supplier</b>		<b>PO Number</b>	<b>PO Date</b>
<b>Vendor Code: 200246808</b>		13798340	28 DEC 2023
GLENS INNOVATION LABS PRIVATE LIMITED GSTN 33AAGCG8023N1ZF 6/1, MURUGESAN STREET, BALAVINAYAGAR NAGAR, ARUMBAKKAM, CHENNAI - 600106 India		<b>Ship-To and Bill-To Address</b>	
Attn: Mr. Dr. S SURESH KUMAR Phone: 9940157123		ANDHRA PAPER LIMITED Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari 533105 India	
<b>Instructions</b>		<b>Buyer Contact Details</b>	
# All other terms & conditions as per Andhra Paper Limited's Standard Terms & Conditions of Purchase. # Please mention returnable gate pass ref. in your invoice & delivery challan (applicable for repair services). Necessary Test report and Dimension report to accompany # TDS will be levied as applicable.		Buyer: Sandeep Edara Tel: 0883-2562965 Fax: E-mail: sandeep.edara@andhrpaper.com	
<b>Supplier Reference</b>		<b>Agreement Reference</b>	
<b>Mode of Dispatch</b>		<b>Freight</b>	<b>Shipment terms</b>
<b>Payment terms</b>			DAP
Net 30 days		<b>Insurance</b>	
		TO YOUR ACCOUNT	

Item	Item Description	Quantity	UoM	Unit Price (INR)	Total Value	Delivery Date
1	Performance calibration of CEMS 3000295 PROFESSIONAL & CONSULTANCY SERVICES - EA IN: Integrated GST-ND	1.000	EA	161,300.00	161300.00	31 MAR 2024
			%	18	29034.00	
	Total Basic			INR	161300.00	
	Total P&F			INR	0.00	
	Total Tax			INR	29034.00	
	Total Swachh Bharat & Krishi Kalyan Cess			INR	0.00	
	Grand Total				190334.00	

**GSTIN:**37AAACT8849D1Z3

**Range:** RANGE V

**Division:** RAJAMAHENDRAVARAM

**Commissionerate:** VISAKHAPATNAM II

Performance Calibration of CEMS at Rajahmundry Unit

Contact: Sreedhar Reddy

Scpe of Work:

1. Performance Calibration of Stack - 3 Nos x Rs.34,200 = INR1,02,600/-

2. Performance Calibration stack samples for RLK-2 for PM & H2S -  
1 Nos x Rs.43,700/-

**Registered Office:**

**ANDHRA PAPER LIMITED**

**Sriram Nagar - Rajamahendravaram**

**East Godavari District**

**Andhra Pradesh, India.**

**www.andhrpaper.com**

**Purchase Order ( Continued )**

Instructions		PO Number	PO Date
# All other terms & conditions as per Andhra Paper Limited's Standard Terms & Conditions of Purchase. # Please mention returnable gate pass ref. in your invoice & delivery challan (applicable for repair services). Necessary Test report and Dimension report to accompany # TDS will be levied as applicable.		13798340	28 DEC 2023
Buyer Contact Details		Buyer: Sandeep Edara Tel: 0883-2562965 Fax: E-mail: sandeep.edara@andhrpaper.com	

3. Transportation Charges 1Nos x Rs.15,000/-

Total PO value is - 1,61,300/-

Validity of PO 01.01.2024 - 31.03.2024

Delivery Terms: As per the user requirement (7 Days from the date of sample collection)

Payment Terms: 100% Net 7 Days from the date of Invoice certification

Specific Terms & Conditions:

1. Safety, PPE, ESI, PF, EL, PH, Gratuity, bonus, Labour License, Insurance, all current & future statutory are in service provider scope.

2. All Safety practices should meet APL Standards.

3. To & Fro Travel, Lodging & Boarding is under vendor scope.

Other Terms & conditions:

a) You shall read the below terms & conditions along with those defined, stipulated in the Service Agreement attached herewith. Please acknowledge the receipt of this PO, Service Contract by returning a signed copy.

# This order is issued to you on basis of confirmation to comply to Scope Of Work(SOW), Terms & Conditions of this PO and the Contractor Safety Policy requirements.

# You shall maintain a record of activities performed by your workforce on daily basis and submit the details along with Bills/Invoices.

# The quality performance related to this contract shall be reviewed quarterly, as appropriate.

b) Coordinate with User Department:

# In line with the Contractor Safety Policy, you shall provide Supervision, Safety tools, tackles and other required PPE and ensure that your workmen use these during the execution of job/works and follow the normal Industrial Safety Practices.

# You shall obtain a necessary Work Permit & gate passes from concerned required to carry out the work.

# You shall be responsible for submitting the Scope of Evaluation item wise jobs and compliances of Contractor Safety Policy duly signed to the

**Registered Office:**

**ANDHRA PAPER LIMITED**

**Sriram Nagar - Rajamahendravaram**

**East Godavari District**

**Andhra Pradesh, India.**

**www.andhrpaper.com**



APL/ENV/2023/11-594

08.11.2023

To

Environmental Engineer,  
A. P. Pollution Control Board, Regional Office,  
Kakinada, **Andhara Pradesh.**

SUB: Andhra Paper Limited, Rajahmundry – Compliance status on CFO condition no.11 under General Head – Intimation

REF : **Consent Order No:APPCB/VSP/RJY/361/CTO/HO/2010- Dated 03.07.2023**

Dear Sir

We are pleased to inform you the compliance status of General Condition under S.No.11 of above cited CFO order dated 03.07.2023 as under:

**S. No: 11 of General Condition of CFO order**

*"The Industry shall restrict the temperature of wastewater to below 35 deg.c at inlet of ETP. The Plan of action to restrict the temperature of wastewater at inlet of ETP within 2 months shall be furnished to RO Kakinada and ZO Visakhapatnam."*

**Compliance Status:**

**Existing ETP cooling tower was rebuild as per below and successfully commissioned in the 3<sup>rd</sup> week of August. 2023.**

- Entire civil tank and structures renovated.
- Cooling tower internal replaced
- Heat exchange surface area increased
- Wings increased from 4 to 8 No's of new set, accordingly gear new gear box installed
- Motor capacity increased from 50 HP to 100 HP.
- Drip eliminators replaced.
- Modification of inlet effluent distribution header line.
- Safety handrails replaced with SS pipe.
- Hot well slope readjusted to maintain equivalence
- Effluent inlet nozzles replaced

**ANDHRA PAPER LIMITED**

(Corporate Identity Number: L21010AP1964PLC001008)

Regd. Office: Rajamahendravaram – 533 105, East Godavari District, India. Tel: +91-883-2471831

Corp. Office: 31, Chowringhee Road, Park Street, Kolkata – 700 016, India. Tel: +91-33-71500500

Website: [www.andhrapaper.com](http://www.andhrapaper.com); Email: [info@andhrapaper.com](mailto:info@andhrapaper.com)

An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Company



The project work was assigned to M/S. S.V.Cooling Towers (P) Ltd. E-32 Kavi Nagar Industrial Area, Sector-17, Ghaziabad-201002, U.P, India with an **estimated Budget is: Rs.73.714 Lacs.**

**Post implementation of Effluent temperatures are given below which are in compliance.** The photographs of cooling tower is attached to this letter.

Date	ETP Inlet ( or ) Cooling tower inlet (Degrees centigrade)	Cooling tower outlet ( or ) Aeration Inlet (Degrees centigrade)	Differential Temperatures
07.11.2023	49	36	13
08.11.2023	48	35	13

This is for your kind information and update

Yours Sincerely  
For **Andhra Paper Limited. Unit – Rajahmundry**



**M. Sura Reddy**

**Sr. Vice President (Operations) & Factory Manager**

CC : Regional Directorate  
CPCB – Chennai.



## ANDHRA PAPER LIMITED

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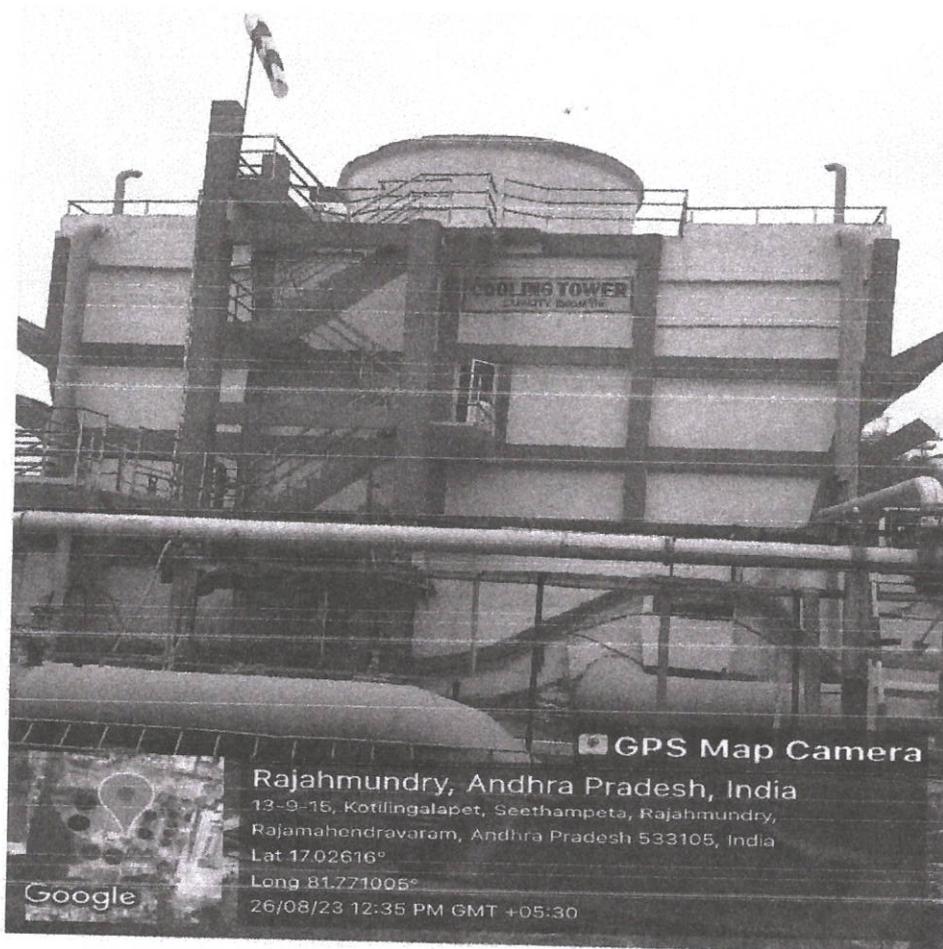
Corp. Office: 31, Chowringhee Road, Park Street, Kolkata – 700 016, India. Tel: +91-33-71500500

Website: [www.andhrapaper.com](http://www.andhrapaper.com); Email: [info@andhrapaper.com](mailto:info@andhrapaper.com)

An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Company



## ETP COOLING TOWER PHOTOGRAPHS



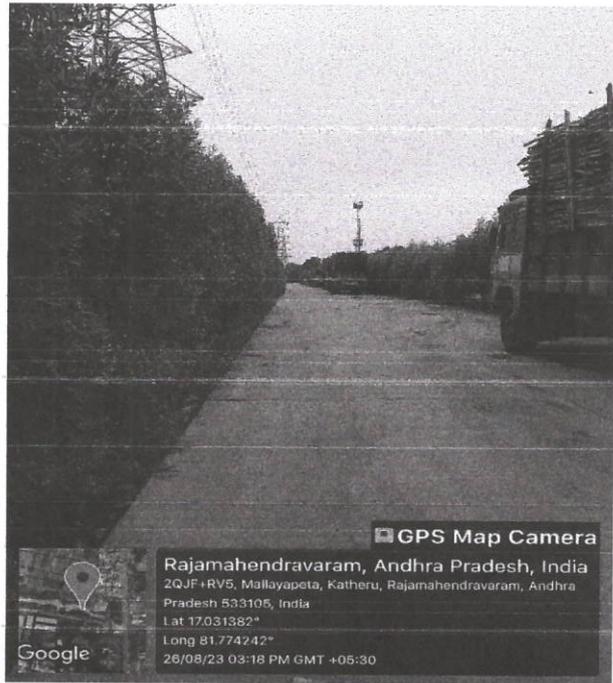
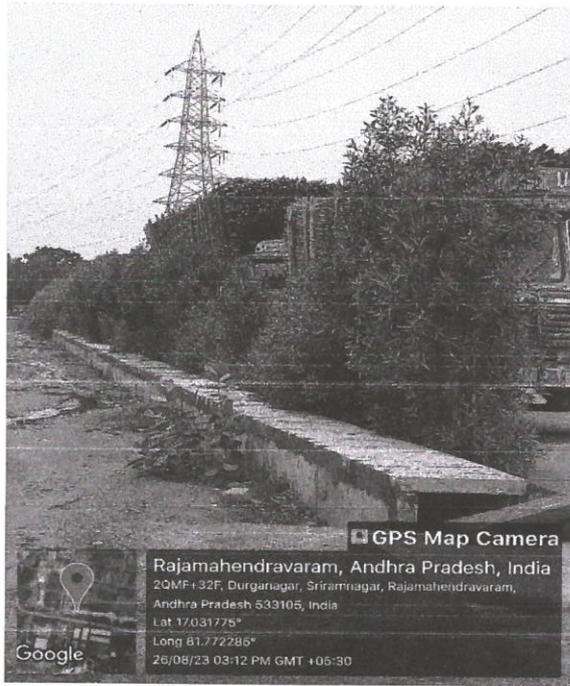
## ANDHRA PAPER LIMITED

(Corporate Identity Number: L21010AP1964PLC001008)

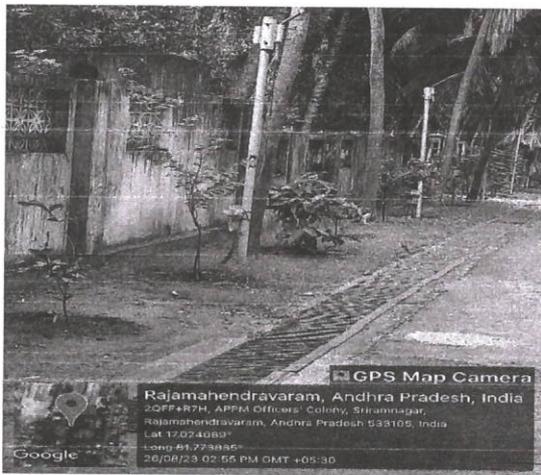
Regd. Office: Rajamahendravaram – 533 105, East Godavari District, India. Tel: +91-883-2471831  
 Corp. Office: 31, Chowringhee Road, Park Street, Kolkata – 700 016, India. Tel: +91-33-71500500

Website: [www.andhrapaper.com](http://www.andhrapaper.com); Email: [info@andhrapaper.com](mailto:info@andhrapaper.com)

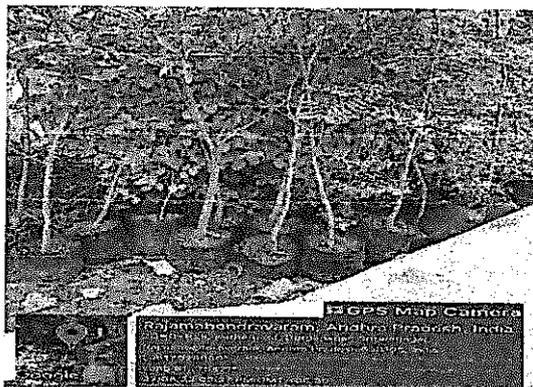
An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Company



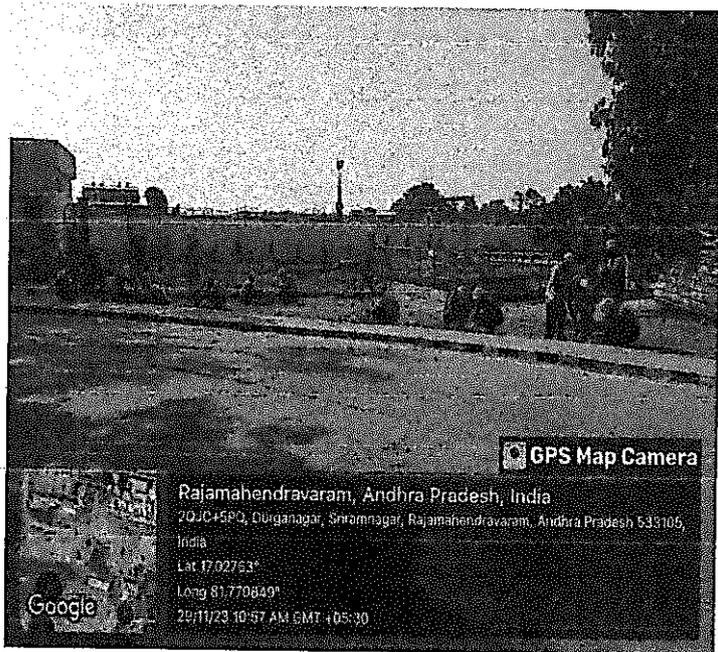
Planation during rainy season in wood yard both side of road 800 meters length



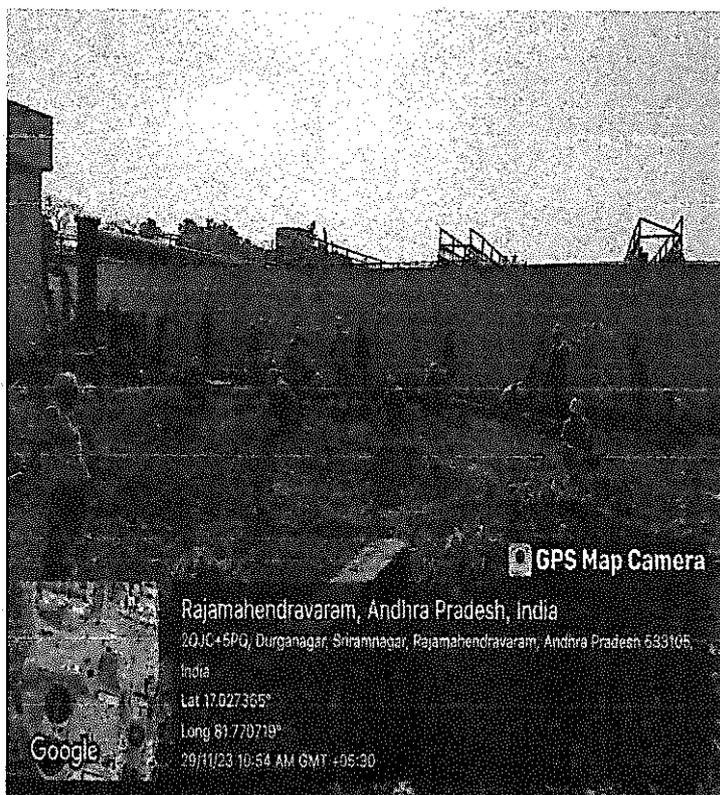
Planation at Mill roadsides



Sapling kept ready for plantation at site.



Sapling at internal road side. i.e Khadambha , Ashoka , Mango and Neem.



Sapling at ETP area. i.e  
Khadambha , Ashoka  
and Neem.

Godavari Paper Limited

Rajahmundry, Andhra Pradesh | PULP AND PAPER | Refresh

Data Last Received On 02, January, 2024	Configuration Updated On 01, January, 2017	Calibration at 01, January, 2018	CEMS 4	EQMS 1	AAQMS 2	Total Stations 7
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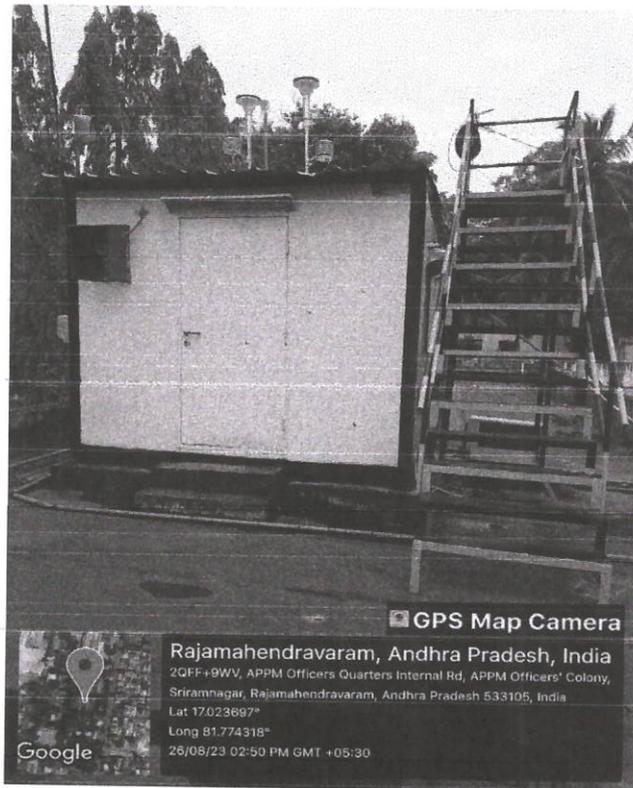
Live Readings

Emission | Effluent | Ambient | All

Help

Godavari\_House

<b>0.03 ug/m3</b> Godavari_House - NO 15 MinsAvg: 0.754 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000	<b>17.31 ug/m3</b> Godavari_House - NO2 15 MinsAvg: 19.148 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000	<b>17.35 ug/m3</b> Godavari_House - NOx 15 MinsAvg: 19.901 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000
<b>33.12 ug/m3</b> Godavari_House - PM2.5 15 MinsAvg: NA ug/m3 Limit: 0 - 60.0 ug/m3 Range: 0 - 1000	<b>41.4 ug/m3</b> Godavari_House - PM10 15 MinsAvg: 41.4 ug/m3 Limit: 0 - 100.0 ug/m3 Range: 0 - 1000	<b>3.15 ug/m3</b> Godavari_House - SO2 15 MinsAvg: 2.106 ug/m3 Limit: 0 - 80.0 ug/m3 Range: 0 - 1000



2<sup>nd</sup> AAQMS  
installed and  
commissioned in  
on 23.08.2023.



2<sup>nd</sup> AAQMS Inside  
analysers view  
PM 10, PM 2.5,  
So2 & Nox.

Purchase Order		PO Number	PO Date
		13797796	13 DEC 2023
Supplier	Ship-To and Bill-To Address		
<b>Vendor Code: 200200255</b> SWAN ENVIRONMENTAL PVT LTD GSTN 36AADCS4126R1ZW PLOT NO.922 & 935 MADHAPUR, SWAMY AYYAPPA CO-OP SOCIETY HYDERABAD - 500081 India  Attn: MR.PV RAMANA Phone: 9642225244 E-mail: ramana@swanenviron.com	ANDHRA PAPER LIMITED Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari 533105 India		
Instructions	Buyer Contact Details		
All other terms & conditions as per our Company's Standard Terms & Conditions of Purchase. Necessary Test report and Dimension report to accompany where applicable. 'Original for Buyer' and 'Duplicate for Transporter' Invoice should accompany goods.	<b>Buyer: Kishor Singh</b> <b>Tel: 7723005620</b> <b>Fax:</b> <b>E-mail: kishor.singh@andhraper.com</b>		
Supplier Reference	Agreement Reference		
Final Quote PRO005264 Dt.11.12.2023			
Mode of Dispatch	Freight	Shipment terms	
Through Any Suitable mode	Paid Basis	DAP Rajahmundry Mill	
Payment terms	Insurance		
Refer Header Text	TO YOUR ACCOUNT		

Item	Item Description	Quantity	UoM	Unit Price (INR)	Total Value	Delivery Date
1	T734000005014 ANALYSER, PM2.5 ACOEM ECOTECH BAM1100 BETA RAY ATTENUATION METHOD F/ CONTINUOUS AMBIENT MONITORING STATION IN: Integrated GST Ship to address: Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari 533105 India	2.000	EA	1173409.38	2346818.76	07 FEB 2024
			%	18	422427.38	
4	T734000005016 ANALYSER, NITROGEN OXIDE ECOTECH FRANCE SERINUS-40 F/CONTINUOUS AMBIENT MONITORING STATION IN: Integrated GST Ship to address: Rajamahendravaram Mill	2.000	EA	527541.19	1055082.38	07 FEB 2024
			%	18	189914.83	

**Registered Office:**  
**ANDHRA PAPER LIMITED**  
**Sriram Nagar - Rajamahendravaram**  
**East Godavari District**  
**Andhra Pradesh, India.**  
**www.andhraper.com**



**Purchase Order ( Continued )**

PO Number	PO Date
13797796	13 DEC 2023

Instructions	Buyer Contact Details
All other terms & conditions as per our Company's Standard Terms & Conditions of Purchase. Necessary Test report and Dimension report to accompany where applicable. 'Original for Buyer' and 'Duplicate for Transporter' Invoice should accompany goods.	<b>Buyer:</b> Kishor Singh <b>Tel:</b> 7723005620 <b>Fax:</b> <b>E-mail:</b> kishor.singh@andrapaper.com

Item	Item Description	Quantity	UoM	Unit Price (INR)	Total Value	Delivery Date
2	Sriram Nagar Rajamahendravaram East Godavari 533105 India T734000005015 ANALYSER, PM10 ACOEM ECOTECH BAM1000 BETA RAY ATTENUATION METHOD F/ CONTINUOUS AMBIENT MONITORING STATION IN: Integrated GST Ship to address: Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari 533105 India	2.000	EA	1025500.63	2051001.26	07 FEB 2024
			%	18	369180.23	
3	T734000005013 ANALYSER, SULPHUR DIOXIDE ECOTECH FRANCE SERINUS-50 F/ CONTINUOUS AMBIENT MONITORING STATION IN: Integrated GST Ship to address: Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari 533105 India	2.000	EA	527541.19	1055082.38	07 FEB 2024
			%	18	189914.83	
5	T734000005435 SAMPLING SYSTEM, GAS SAS999 CONT AMBIENT AIR QUALITY STATION IN: Integrated GST Ship to address: Rajamahendravaram Mill	2.000	EA	34512.04	69024.08	07 FEB 2024
			%	18	12424.33	

Registered Office:  
**ANDHRA PAPER LIMITED**  
 Sriram Nagar - Rajamahendravaram  
 East Godavari District  
 Andhra Pradesh, India.  
[www.andrapaper.com](http://www.andrapaper.com)



**Purchase Order ( Continued )**

<b>PO Number</b>	<b>PO Date</b>
13797798	13 DEC 2023

<b>Instructions</b>	<b>Buyer Contact Details</b>
All other terms & conditions as per our Company's Standard Terms & Conditions of Purchase. Necessary Test report and Dimension report to accompany where applicable. 'Original for Buyer' and 'Duplicate for Transporter' Invoice should accompany goods.	<b>Buyer:</b> Kishor Singh <b>Tel:</b> 7723005620 <b>Fax:</b> <b>E-mail:</b> kishor.singh@andhraper.com

Item	Item Description	Quantity	UoM	Unit Price (INR)	Total Value	Delivery Date
6	Sriram Nagar Rajamahendravaram East Godavari 533105 India T73400005446. RACK,SYSTEM 19IN RAK-19-2 F/ ANALYSERS FIXING W/ ACCESSORIES F/ AMBIENT AIR QUALITY STATION IN: Integrated GST Ship to address: Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari 533105 India	1.000	EA	49302.92	49302.92	07 FEB 2024
			%	18	8874.53	
7	T73400005441 MONITORING SYSTEM, WEATHER SWM927 SWAN CONT AMBIENT AIR MONITORING F/AMBIENT AIR QUALITY STATION IN: Integrated GST Ship to address: Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari 533105 India	1.000	EA	197211.66	197211.66	07 FEB 2024
			%	18	35498.10	
8	T73400005445 DETECTOR,VOC AIYI AMBIENT AIR MONITORING F/ AMBIENT AIR QUALITY STATION IN: Integrated GST Ship to address: Rajamahendravaram Mill	2.000	EA	256375.16	512750.32	07 FEB 2024
			%	18	92295.06	

**Registered Office:**  
**ANDHRA PAPER LIMITED**  
Sriram Nagar - Rajamahendravaram  
East Godavari District  
Andhra Pradesh, India.  
[www.andhraper.com](http://www.andhraper.com)



**ANDHRA PAPER LIMITED**

(Corporate Identification Number: L21010AP1964PLC001008)

**AP Andhra Paper Limited**

Page 4 of 9

**Purchase Order ( Continued )**

Instructions		PO Number	PO Date
All other terms & conditions as per our Company's Standard Terms & Conditions of Purchase. Necessary Test report and Dimension report to accompany where applicable. 'Original for Buyer' and 'Duplicate for Transporter' Invoice should accompany goods.		13797796	13 DEC 2023
		Buyer Contact Details	
		Buyer: Kishor Singh Tel: 7723005620 Fax: E-mail: kishor.singh@andhrapaper.com	

Item	Item Description	Quantity	UoM	Unit Price (INR)	Total Value	Delivery Date
9	Sriram Nagar Rajamahendravaram East Godavari 533105 India T734000Q05437. SHELTER, SWAN TECHNICAL SERVICE ROOM F/ AMBIENT AIR QUALITY STATION IN: Integrated GST Ship to address: Rajamahendravaram Mill Sriram Nagar Rajamahendravaram East Godavari 533105 India	1.000	EA	443726.24	443726.24	07 FEB 2024
			%	18	79870.72	
	Total Basic			INR	7780000.00	
	Total P&F			INR	0.00	
	Total Tax			INR	1400400.01	
	Grand Total			INR	9180400.01	

GSTIN:37AAACT8849D1Z3

Range: RANGE V

Division: RAJAMAHENDRAVARAM

Commissionerate: VISAKHAPATNAM II

Order for "ONLINE CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM"

Ref: PRO003999 dt. 31/08/2023 and Final Quote PRO005264 Dt.11.12.2023-<>  
,<>

Make : Swan Environmental

Delivery: 6-8 Weeks from the date of receipt of PO.

Payment Term: 65% +taxes payment will be released within 30 days after receipt of materials at site subject to user approval , balance 25% payment after satisfactory Commission and data uploading to APPCB site & submission of relevant data sheets and approvals subject to readiness of site conditions or 45 days from the date of receipt of material , remaining 10% payment against PBG valid till warranty period".

**Registered Office:**  
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**Sriram Nagar - Rajamahendravaram**  
**East Godavari District**  
**Andhra Pradesh, India.**  
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