

Ref: JKPW/ CTS/08.04A/ 26 /2023,

May 27, 2023

**Sri. A. T. Mishra, IFS
Government of India,
Ministry of Environment, Forests & Climate Change,
Eastern Regional Office,
A-3, Chandrasekharpur.
BHUBANESWAR- 751023**

Re: Half Yearly Compliance Reports in respect of Environment Clearance.

Your Letter No. File No. 106-12/EPE, 11.05.2020

Dear Sir,

With reference to the above letter, we are here with submitting half-yearly compliance reports (From October 2022 to March 2023) along with all supporting documents, monitoring results etc. in respect of the stipulated Environment Clearance terms and conditions through mentioned mail id.

Thanking you.

Yours faithfully,
For J K Paper Limited



Executive Vice President (Works)

Copy to:

Member Secretary, Odisha Pollution Control Board, Bhubaneswar, Odisha
Regional Officer, Odisha Pollution Control Board, Kasturi Nagar, Rayagada



Works : J.K. Paper Mills. Ph : 91-6856-233770/233550/234077. Fax: 91-6856-234078
E-mail: jkpaper@jkpm.jkmail.com

Regd. Office : P.O. Central Pulp Mills. Fort Songadh, Distt. Tapi (Guj.)-394660. Ph: 91-2624-220228/220278-80.
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Admn. Office : Nehru House, 4, Bahadur Shah Zafar Marg, New Delhi-110002. Ph: 91-11-33001112/23311112-5.
Fax: 91-11-23712680. Website: www.jkpaper.com
CIN-L2101 GJ1960PLC018099

Half Yearly Environment Clearance Compliance Report

Name of the Project: J. K. Paper Mills

Clearance Letter No: J-11011/172/2010-IA-II(I), Dated 20th April 2011

Period of Compliance Report: October 2022 – March 2023

Sl. No.	Specific Condition	Status
1.	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State Government should be ensured and regular reports submitted to the Ministry and its Regional Office at Bhubaneswar	<p>We have obtained Environmental Clearance letter from MoEF cc, New Delhi vide letter no. J-11011/172/2010-IA-II(I), Dated 20th April 2011 and amended Clearance vide letter no. J-11011/172/2010-IA-II(I), Dated 10th May 2013 and letter no. J-11011/172/2010-IA-II(I), Dated 18th June 2018.</p> <p>Obtained Consent to Operate for Air and Water from Odisha State Pollution Control Board vide order no. 4267/IND-I-CON-41, dt. 21.03.2023 and valid up to 31.03.2025.</p> <p>All compliance reports related to specific and general conditions stipulated for the existing plant by the Central/State Government is being regularly submitted to the Ministry and its Regional Office at Bhubaneswar.</p>
2.	The project authority shall install ESP to CFBC boilers to achieve the particulate emission below 50 mg/Nm ³ . The emissions from chemical recovery section shall be controlled through primary and secondary ventury scrubbers. To scrub the vent gases, scrubber shall be installed in the pulping and bleaching section. Lime scrubbing shall be done to mitigate SO ₂ emissions and Low NO _x burners shall be installed.	<p>In our new CFBC boiler with the latest design of our ESP, we are able to achieve the particulate emission below 50 mg/Nm³.</p> <p>In chemical recovery boiler, we have adopted bigger size economizer with highly efficient ESP instead of primary and secondary ventury scrubber, to control emissions.</p> <p>We have adopted bleach scrubber in bleaching section by using caustic solution which is more effective than lime.</p> <p>Stack emissions are being monitored through on-line monitoring system as well as using manual stack-monitoring devices. The monitoring results of Stack for Coal fired Boiler and liquor Fired Boiler from October'22 to March'23 is given below. We are monitoring the different parameters of all stacks by third party once in 3 months. The last test report of Coal fired Boiler and Liquor Fired Boiler is attached as Anx - I</p>

Monitoring results of Coal Fired Boiler										
Period	Sampling locations	PM			SO ₂			NO ₂		
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
Oct'22 – March'23	Coal Fired Boiler	35.69	30.42	33.07	201.58	164.30	201.58	172.8	132.67	159.99



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Monitoring results of Liquor Fired Boiler													
Period	Sampling locations	PM			H ₂ S			SO ₂			NO ₂		
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
Oct'22 – March'23	Liquor Fired Boiler	39.45	33.15	37.14	6.35	5.74	6.05	142.60	124.31	135.18	170.51	150.70	160.48

Sl. No.	Specific Condition	Status
3.	The total water requirement after expansion shall not exceed 31,960 KLD. The industry should ensure the compliance of the standards for discharge of the treated effluent from the unit as stipulated under the EPA rules or SPCB whichever is more stringent. The company shall make efforts to limit the water consumption up to 75 m ³ /tonne of product. Adequate steps including use of modern RO/UF based technologies should be used to increase recycling and reduce water consumption. The wastewater shall be discharged only after meeting the CPCB norms. Efforts shall be made to achieve 10 Kappa by using H ₂ O ₂ . The Company shall harvest the rainwater to recharge the ground water.	Our freshwater consumption is well within 31,960 M ³ /day. Our specific water consumption is getting reduced significantly by implementing different water saving schemes year by year. Last year water consumption is 27.73 M ³ (Apr'22 to March'23) per ton of paper. The detail data is given in the graph Anx-II. Two stage oxygen delignification processes have been adopted at Pulp mill to control 10 kappa. Presently the rainwater is going to recharge wells.
4.	Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board and regular monitoring should be carried out for all relevant parameters to maintain the effluent treatment efficiency. The report shall be submitted to Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.	Influent and effluent monitoring stations are set up in consultation with the SPCB. pH, BOD, COD, TSS is being closely monitored regularly to maintain the effluent treatment efficiency. Moreover, all the above parameters are being monitored through on-line monitoring system and the real time data is being transmitted to CPCB and OSPCB. The AOx content in treated and untreated effluent being tested through Central Pulp and Paper Research Center, Saharanpur. The test results of pH, BOD, COD, TSS are being sent to SPCB on monthly basis. We have also tested the different parameters of Treated and untreated effluent, Upstream and Downstream of River Nagavali from Vimta Lab, Hyderabad and the monitoring data are attached in Annexure – III, IV respectively.


 Gen. Manager (EHS)

Stage wise Effluent Monitoring Data														
Period	Monitoring station	pH			SS (mg/l)			COD (mg/l)			BOD (mg/l)			AOx (mg/l)
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Avg
Oct'22 - Mar'23	Inlet to ET Plant	7.3	6.6	6.9	1206	920	1077	1280	932	1109	360.0	290.0	327.4	6.86
	Primary clarifier overflow	7.4	6.7	7.0	148	124	134.6	680	510	594.7	246.9	162.6	203.4	--
	Activated sludge basin overflow	7.4	6.6	7.0	2986	2650	2822	--	--	--	--	--	--	--
	Secondary clarifier overflow	7.5	6.7	7.1	26	15	21.9	187.3	141	162.8	19.8	12.0	15.4	4.10

Sl. No.	Specific Condition	Status
5.	The company shall install Oxygen Delignification (ODL) Plant and maintain AOX below 1 kg/ton of paper production.	We have already adopted two stage oxygen delignification processes in our new pulping process and the AOX level at our treated effluent is between 0.077 - 0.12 kg/ton of paper production. The AOX content in treated and untreated effluent being tested through Central Pulp and Paper Research Center, Saharanpur.
6.	Elemental Chlorine Free (ECF) technology shall be used and lime kiln should be installed to manage lime sludge.	We are not using chlorine in our bleaching process. We have one Lime kiln plant having capacity 300 MT/day for lime sludge management.
7.	The company shall submit the comprehensive water management plan along with monitoring plan for the ground water quality and the level, within three months from date of issue of this letter.	Since long, we are monitoring ground water quality twice a year at three places around the factory and the reports are being submitted regularly to your office. The recent analysis report is enclosed in the Annexure - V. With respect to ground water level, we are capturing the month wise data since Oct'11 with the help of a level indicator from bore well. The month wise ground water level data is as under (From October' 22 – March' 23).

Month	Oct -22	Nov -22	Dec -22	Jan -23	Feb -23	Mar - 23
Ground water level in (m)	19.0	19.2	19.5	19.6	19.9	20.3


 Gen. Manager (EHS)

Sl. No.	Specific Condition	Status
8.	The Ash generated from the plant shall be disposed of in accordance with the provisions of the Fly Ash Notification, 2003 as amended in 2009.	In our present fly ash management system, we are utilizing 100% generated fly ash for manufacturing of bricks. Every month we are sending statement to your office. The statements for last year (April 2022 – March 2023) is already submitted to your office vide our letter no. JKPW/CTS/08.04A/14, dt. 28.04.2023.
9.	The project authority shall dispose of hazardous waste as per the provision of Hazardous Wastes (Management Handling and Transboundary Movement) Rules, 2008.	We have obtained Hazardous waste Authorization from Odisha State Pollution Control Board vide letter no. IND-IV-HW-03/5325, dt. 31.03.2023 and the authorization is valid up to 31.03.2024. All the Hazardous waste is being disposed off as per the guidelines.
10.	The company should develop green belt in 33% of the total land all along the boundary wall as per the CPCB guidelines to mitigate the effect of fugitive emissions.	At present, from our total area, 41.11% have been covered with green belt. In addition to that, we are planning to develop more green belt in future.
11.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	As per Factory Rule 62-1 in form 31-A, we are conducting Occupational Health Checkup annually for all permanent employees as well as contractor employees and records are being maintained. Details of Occupational health checkup for all employees for the year 2023 is given below for your reference.

Summary of Health Check Up for the year - 2023

Sl. No	Description	Total No of employees to be covered	Retired, Resign, Death	Actual manpower	Actual Done	Balance to be done	Percentage calculation
1	Annual Medical Checkup	1185	52	1133	1045	88	92.23
2	Eye Checkup (General and Colour Blindness)	--	--	--	--	--	--
3	Health Checkup of the Food Handlers (Guest House & Canteen Staff)	--	--	--	--	--	--
4	Chest 'X"Ray	--	--	--	--	--	--
5	Audiometry Test	--	--	--	--	--	--
6	Vertigo	--	--	--	--	--	--


Gen. Manager (EHS)

Sl. NO.	Specific Condition	Status
12.	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Suitable fire hydrant system is in place for throughout the plant. About 408 Fire Hydrants and 37 monitors has been installed at different location of plant as per the requirements
13.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the pulp and paper sector should be strictly implemented.	All the recommendations made in the Charter on CREP are being followed strictly and the last compliance report is submitted herewith as Anx - VI
14.	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 22 nd December, 2010 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.	We have prepared action plan to implement all the commitments made to the public during the Public Hearing through our CSR activities. The status of commitments made during the Public Hearing is as under.

Sl. No.	Issue in Public hearing	Activity Proposed	Present Status
A.	Provision of OHT & water supply in Bada Chandili village	Construction of One Bore Well together with an Overhead Tank and a few distribution points	<ul style="list-style-type: none"> Completed in both villages. <ul style="list-style-type: none"> Badachandili OHT was completed in FY 2011-12 Sanachandili OHT was completed in FY 2011-12 Solar Drinking water provision completed in Jagannathguda, Sanochandili FY 2022-23 (Cleaning and maintenance are taken up by us in regular interval as and when required.)
B.	Start ITI / Training	Support 10 SC / ST Students from the vicinity to pursue ITI course	<ul style="list-style-type: none"> Provided financial support to 12 students pursuing technical courses from Sanochandili and Badachandili village. Note: - Apart from the above we shortlisted 12 students for JK Meritorious Scholarship during this FY 2022-23.
		Government of Odisha has approved an ITI at Rayagada and the same is under construction. JKPM is proposing to take over the said ITI once it is completed and shall convert it into a Centre of Excellence and run the same under Central Govt. Scheme.	<ul style="list-style-type: none"> JKPM has signed an agreement with the said ITI for taking in adequate nos. of apprentices.


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Sl. No.	Issue in Public hearing	Activity Proposed	Present Status
C.	Gopanbandhu Park situated at Jaykaypur, approach road to nearby villages are not well developed.	As a part of road widening initiative taken up by the State Government, the park which is situated at the centre of the road is going to be relocated. Maintenance of the park shall be resumed once the said relocation of the park takes place. Approach roads to nearby villages are being developed to and from Rayagada by Government through World Bank Funding.	<ul style="list-style-type: none"> Gopabandhu Park was renovated and maintained by us in a regular manner. Note initiatives to support Chandili GP for cleaning of Market area since last five years.: Apart from this JKPM-CSR has taken

Sl. No.	Specific Condition	Status
15.	At least 5 % of the total cost of the project shall be earmarked towards the enterprise social commitment based on Public Hearing & social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	Please refer to our Annexure – VII for detailed proposal and expenditure on CSR.
16.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Our project already completed and commissioned, and all temporary structures have been removed.

Sl. No.	General Condition	Status
i	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board and the State Government.	Noted and being adhered to.
ii	No further expansion or modernization in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted


Gen. Manager (EHS)

Sl. No.	General Condition	Status
iii	One ambient air quality monitoring station shall be installed in downwind direction. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with UPPCB and report submitted to the OPCB quarterly and to the Ministry's Regional Office at Bhubaneswar half-yearly.	Ambient air quality and stack emissions are being monitored regularly and report submitted to the OPCB monthly and to the Ministry's Regional Office at Bhubaneswar half-yearly. Three online ambient air quality monitoring station has been installed and real time data is being transmitted to Odisha State Pollution Control Board. The last report of Ambient Air Quality is submitted herewith as Anx – VIII
iv	In-plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handlings etc. shall be provided. Bag filters shall be provided at transfer points and dedusting stacks to control fugitive emissions. Water sprinkling, black topping of internal roads and green belt development shall be carried out to control the fugitive dust emissions due to vehicular movement. Dust suppression and extraction system shall be provided to control secondary fugitive emission during raw material handling and processing.	Full proof pollution control technologies have been already adopted at all the dust prone areas and fugitive emissions and the same being monitored regularly. The fugitive emissions data is being collected at 5 different places (Areas: Coal Handling area, Fly ash transportation area, Lime handling area, Chipper House old and Chipper House New Area). We have taken all care to adopt latest pollution control measures at different areas for dust suppression.
v	Proper housekeeping and cleanliness must be maintained within and outside the plant.	Noted
vi	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	As per the requirements different noise control equipment have been adopted at different areas to keep the noise level below the prescribed standard and being monitored regularly. The last report of Noise level is submitted herewith as Anx – IX
vii	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee should be maintained separately.	Our company has its own medical center, where apart from other treatment facilities; first aid facilities are available for all employees. Regular health checkup of all employees has been carried out and Individual health report of all employees is available.
viii	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP and Public Hearing report.	This is noted and care is being taken.
ix	The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office at Bhubaneswar / SPCB /CPCB. A six-monthly compliance status report shall be submitted to monitoring agencies.	Being submitted regularly.


Gen. Manager (EHS)

Sl. No.	General Condition	Status
x	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. shall be ensured for construction workers during the construction phase so as to avoid felling of trees and pollution of water and the surroundings.	Construction work Completed.
xi	The project proponent shall have a scheme for social upliftment in the surrounding villages with reference to contribution in road construction, education, establishment of health centers, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs.	Being done regularly
xii	A separate Environmental Management Cell equipped with full-fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of Senior Executive.	An Environment Cell has been already set up with 10 MCS (Staff & Officers) and is headed by General Manager (EHS).
xiii	The requisite amount shall be earmarked towards capital cost and recurring cost/annum for implementing environment pollution control measures respectively and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule for implementing all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	Always Separate fund is being allocated for implementation of environment pollution control measures.
xiv	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Being followed.


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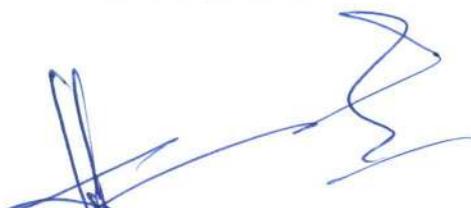
Sl. No.	General Condition	Status
xv	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.	Being done on regular basis.
xvi	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by e-mail.	The environmental statement in Form-V for the financial year 2021 – 22 is already submitted in your office vide our letter no. JKPW/CTS/08.04D/66, Dt. 21.09.22. Also, it is uploaded in our website.
xvii	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at the Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.	Already this has been advertised in two newspapers (The New Indian Express (English) & The Sambad (Oriya), on 06.05.11 & 05.05.11 respectively)


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10	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
11	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
12	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Noted

Thanking you.

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Half Yearly Environment Clearance Compliance Report

Name of the Project: J. K. Paper Mills

Clearance Letter No. J-11011/172/2010-IA-II(I), Dated 10th May 2013

Period of Compliance Report: October 2022 – March 2023

Sl. No.	Specific Condition	Status
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Gen. Manager (EHS)

Stage wise Effluent Monitoring Data														
Period	Monitoring station	pH			SS (mg/l)			COD (mg/l)			BOD (mg/l)			AOx (mg/l)
		Max	Min	Avg	Max	Min	Max	Min	Avg	Max	Min	Max	Avg	Avg
Oct'22	Inlet to ET Plant	7.3	6.6	6.9	1206	920	1077	1280	932	1109	360.0	290.0	327.4	6.86
	Primary clarifier overflow	7.4	6.7	7.0	148	124	134.6	680	510	594.7	246.9	162.6	203.4	--
Mar'23	Activated sludge basin overflow	7.4	6.6	7.0	2986	2650	2822	--	--	--	--	--	--	--
	Secondary clarifier overflow	7.5	6.7	7.1	26	15	21.9	187.3	141	162.8	19.8	12.0	15.4	4.10

Sl. No.	Specific Condition	Status
5.	The company shall install Oxygen Delignification (ODL) Plant and maintain AOx below 1 kg/tonne of paper production.	We have already adopted two stage oxygen delignification processes in our new pulping process and the AOx level at our treated effluent is between 0.077 - 0.12 kg/ton of paper production. The AOx content in treated and untreated effluent being tested through Central Pulp and Paper Research Center, Saharanpur.
6.	Elemental Chlorine Free (ECF) technology shall be used and lime kiln should be installed to manage lime sludge.	We are not using chlorine in our bleaching process. We have one Lime kiln plant having capacity 300 MT/day for lime sludge management.
7.	The company shall submit the comprehensive water management plan along with monitoring plan for the ground water quality and the level, within three months from date of issue of this letter.	Since long, we are monitoring ground water quality twice a year at three places around the factory and the reports are being submitted regularly to your office. The recent analysis report is enclosed in the Annexure - V. With respect to ground water level, we are capturing the month wise data since Oct'11 with the help of a level indicator from bore well. The month wise ground water level data is as under (From October' 22 – March' 23).

Month	Oct -22	Nov -22	Dec -22	Jan -23	Feb -23	Mar - 23
Ground water level in (m)	19.0	19.2	19.5	19.6	19.9	20.3

Sl. No.	Specific Condition	Status
8.	The Ash generated from the plant shall be disposed of in accordance with the provisions of the Fly Ash Notification, 2003 as amended in 2009.	In our present fly ash management system, we are utilizing 100% generated fly ash for manufacturing of bricks. Every month we are sending statement to your office. The statements for last year (April 2020 – March 2021) is already submitted to your office vide our letter no. JKPW/CTS/08.04A/14, dt. 28.04.2023.


Gen. Manager (EHS)

Sl. No.	Specific Condition	Status
9.	The project authority shall dispose of hazardous waste as per the provision of Hazardous Wastes (Management Handling and Transboundary Movement) Rules, 2008.	We have obtained Hazardous waste Authorization from Odisha State Pollution Control Board vide letter no. IND-IV-HW-03/20905, dt. 28.12.2021 and the authorization is valid up to 31.03.2023. All the Hazardous waste is being disposed off as per the guidelines.
10.	The company should develop green belt in 33% of the total land all along the boundary wall as per the CPCB guidelines to mitigate the effect of fugitive emissions.	At present, from our total area, 41.11% have been covered with green belt. In addition to that, we are planning to develop more green belt in future.
11.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	As per Factory Rule 62-1 in form 31-A, we are conducting Occupational Health Checkup annually for all permanent employees as well as contractor employees and records are being maintained. Details of Occupational health checkup for all employees for the year 2023 is given below for your reference.

Summary of Health Check Up for the Year - 2023

Sl. No	Description	Total No of employees to be covered	Retired, Resign, Death	Actual manpower	Actual Done	Balance to be done	Percentage calculation
1	Annual Medical Checkup	1185	52	1133	1045	88	92.23
2	Eye Checkup (General and Colour Blindness)	--	--	--	--	--	--
3	Health Checkup of the Food Handlers (Guest House & Canteen Staff)	--	--	--	--	--	--
4	Chest 'X"Ray	--	--	--	--	--	--
5	Audiometry Test	--	--	--	--	--	--
6	Vertigo	--	--	--	--	--	--

Sl. No.	Specific Condition	Status
12.	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Suitable fire hydrant system is in place for throughout the plant. About 408 Fire Hydrants and 37 monitors has been installed at different location of plant as per the requirements


Gen. Manager (EHS)

Sl. No.	Specific Condition	Status
13.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the pulp and paper sector should be strictly implemented.	All the recommendations made in the Charter on CREP are being followed strictly and the last compliance report is submitted herewith as Anx - VI
14.	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 22 nd December, 2010 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.	We have prepared action plan to implement all the commitments made to the public during the Public Hearing through our CSR activities. The status of commitments made during the Public Hearing is as under.

Sl. No.	Issue in Public hearing	Activity Proposed	Present Status
A.	Provision of OHT & water supply in Bada Chandili village	Construction of One Bore Well together with an Overhead Tank and a few distribution points	<ul style="list-style-type: none"> Completed in both villages. <ul style="list-style-type: none"> Badachandili OHT was completed in FY 2011-12 Sanachandili OHT was completed in FY 2011-12 Solar Drinking water provision completed in Jagannathguda, Sanochandili FY 2022-23 (Cleaning and maintenance are taken up by us in regular interval as and when required.
B.	Start ITI / Training	Support 10 SC / ST Students from the vicinity to pursue ITI course	<ul style="list-style-type: none"> Provided financial support to 12 students pursuing technical courses from Sanochandili and Badachandili village. Note: - Apart from the above we shortlisted 12 students for JK Meritorious Scholarship during this FY 2022-23.
		Government of Odisha has approved an ITI at Rayagada and the same is under construction. JKPM is proposing to take over the said ITI once it is completed and shall convert it into a Centre of Excellence and run the same under Central Govt. Scheme.	<ul style="list-style-type: none"> Gopabandhu Park was renovated and maintained by us in a regular manner. Note: Apart from this JKPM-CSR has taken initiatives to support Chandili GP for cleaning of Market area since last five years.


Gen. Manager (EHS)

C.	Gopanbandhu Park situated at Jaykaypur, approach road to nearby villages are not well developed.	As a part of road widening initiative taken up by the State Government, the park which is situated at the centre of the road is going to be relocated. Maintenance of the park shall be resumed once the said relocation of the park takes place. Approach roads to nearby villages are being developed to and from Rayagada by Government through World Bank Funding.	<ul style="list-style-type: none"> • Proper Black top road has been widened to the nearby villages. • Gopabandhu Park has been renovated and regular maintenance of the park & taken care of it.
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Sl. No.	Specific Condition	Status
15.	At least 5 % of the total cost of the project shall be earmarked towards the enterprise social commitment based on Public Hearing & social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	Please refer to our Annexure – VII for detailed proposal and expenditure on CSR.
16.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Our project already completed and commissioned, and all temporary structures have been removed.

Sl. No.	General Condition	Status
i	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board and the State Government.	Noted and being adhered to.
ii	No further expansion or modernization in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted
iii	One ambient air quality monitoring station shall be installed in downwind direction. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with UPPCB and report submitted to the OPCB quarterly and to the Ministry's Regional Office at Bhubaneswar half-yearly.	Ambient air quality and stack emissions are being monitored regularly and report submitted to the OPCB monthly and to the Ministry's Regional Office at Bhubaneswar half-yearly. Three online ambient air quality monitoring station has been installed and real time data is being transmitted to Odisha State Pollution Control Board. The last report of Ambient Air Quality is submitted herewith as Anx – VIII


 Gen. Manager (EHS)

Sl. No.	General Condition	Status
iv	In-plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handlings etc. shall be provided. Bag filters shall be provided at transfer points and dedusting stacks to control fugitive emissions. Water sprinkling, black topping of internal roads and green belt development shall be carried out to control the fugitive dust emissions due to vehicular movement. Dust suppression and extraction system shall be provided to control secondary fugitive emission during raw material handling and processing.	Full proof pollution control technologies have been already adopted at all the dust prone areas and fugitive emissions and the same being monitored regularly. The fugitive emissions data is being collected at 5 different places (Areas: Coal Handling area, Fly ash transportation area, Lime handling area, Chipper House old and Chipper House New Area). We have taken all care to adopt latest pollution control measures at different areas for dust suppression.
v	Proper housekeeping and cleanliness must be maintained within and outside the plant.	Noted
vi	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	As per the requirements different noise control equipment have been adopted at different areas to keep the noise level below the prescribed standard and being monitored regularly. The last report of Noise level is submitted herewith as Anx – IX
vii	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee should be maintained separately.	Our company has its own medical center, where apart from other treatment facilities; first aid facilities are available for all employees. Regular health checkup of all employees has been carried out and Individual health report of all employees is available.
viii	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP and Public Hearing report.	This is noted and care is being taken.
ix	The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office at Bhubaneswar / SPCB /CPCB. A six-monthly compliance status report shall be submitted to monitoring agencies.	Being submitted regularly.
x	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. shall be ensured for construction workers during the construction phase so as to avoid felling of trees and pollution of water and the surroundings.	Construction work Completed.
xi	The project proponent shall have a scheme for social upliftment in the surrounding villages with reference to contribution in road construction, education, establishment of health centers, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs.	Being done regularly


Gen. Manager (EHS)

Sl. No.	General Condition	Status
xii	A separate Environmental Management Cell equipped with full- fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of Senior Executive.	An Environment Cell has been already set up with 10 MCS (Staff & Officers) and is headed by General Manager (EHS).
xiii	The requisite amount shall be earmarked towards capital cost and recurring cost/annum for implementing environment pollution control measures respectively and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule for implementing all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	Always Separate fund is being allocated for implementation of environment pollution control measures.
xiv	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Being followed.
xv	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.	Being done on regular basis.
xvi	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	The environmental statement in Form-V for the financial year 2021 – 22 is already submitted in your office vide our letter no. JKPW/CTS/08.04D/66, Dt. 21.09.22. Also, it is uploaded in our website.


 Gen. Manager (EHS)

JK PAPER LTD.

Unit : J.K. Paper Mills, Jaykaypur. Distt. Rayagada. Odisha-765017



Sl. No.	General Condition	Status
xvii	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at the Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office at Bhubaneswar.	Already this has been advertised in two newspapers (The New Indian Express (English) & The Sambad (Oriya), on 06.05.11 & 05.05.11 respectively)

10	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
11	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
12	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Noted

Thanking you.

Yours faithfully,

For J K Paper Limited

Executive Vice President (Works)



Works : J.K. Paper Mills. Ph : 91-6856-233770/233550/234077. Fax: 91-6856-234078
E-mail: jkpaper@jkpm.jkmail.com

Regd. Office : P.O. Central Pulp Mills. Fort Songadh, Distt. Tapi (Guj.)-394660. Ph: 91-2624-220228/220278-80.
Fax: 91-2624-220. 38 Cable: Cenpulp. E-mail: cpm@cpmjk.jkmail.com

Admn. Office : Nehru House, 4, Bahadur Shah Zafar Marg, New Delhi-110002. Ph: 91-11-33001112/2331112-5.
Fax: 91-11-23712680. Website: www.jkpaper.com
CIN-L2101 GJ1960PLC018099

Half Yearly Environment Clearance Compliance Report

Name of the Project: J. K. Paper Mills

Clearance Letter No. J-11011/172/2010-IA-II(I), Dated 18th June 2018

Period of Compliance Report: October 2022 – March 2023

Sl. No.	Specific Condition	Status
1.	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State Government should be ensured and regular reports submitted to the Ministry and its Regional Office at Bhubaneswar	<p>We have obtained Environmental Clearance letter from MoEF cc, New Delhi vide letter no. J-11011/172/2010-IA-II(I), Dated 20th April 2011 and amended Clearance vide letter no. J-11011/172/2010-IA-II(I), Dated 10th May 2013 and letter no. J-11011/172/2010-IA-II(I), Dated 18th June 2018.</p> <p>Obtained Consent to Operate for Air and Water from Odisha State Pollution Control Board vide order no. 4267/IND-I-CON-41, dt. 21.03.2023 and valid up to 31.03.2025.</p> <p>All compliance reports related to specific and general conditions stipulated for the existing plant by the Central/State Government is being regularly submitted to the Ministry and its Regional Office at Bhubaneswar.</p>
2.	The project authority shall install ESP to CFBC boilers to achieve the particulate emission below 50 mg/Nm ³ . The emissions from chemical recovery section shall be controlled through primary and secondary ventury scrubbers. To scrub the vent gases, scrubber shall be installed in the pulping and bleaching section. Lime scrubbing shall be done to mitigate SO ₂ emissions and Low NO _x burners shall be installed.	<p>In our new CFBC boiler with the latest design of our ESP, we are able to achieve the particulate emission below 50 mg/Nm³.</p> <p>In chemical recovery boiler, we have adopted bigger size economizer with high efficient ESP instead of primary and secondary ventury scrubber, to control emissions.</p> <p>We have adopted bleach scrubber in bleaching section by using caustic solution which is more effective than lime.</p> <p>Stack emissions are being monitored through on-line monitoring system as well as using manual stack-monitoring devices. The monitoring results of Stack for Coal fired Boiler and liquor Fired Boiler from October'22 to March'23 is given below. We are monitoring the different parameters of all stacks by third party once in 3 months. The last test report of Coal fired Boiler and Liquor Fired Boiler is attached as Anx - I</p>

Monitoring results of Coal Fired Boiler										
Period	Sampling locations	PM			SO ₂			NO ₂		
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
Oct'22 – March'23	Coal Fired Boiler	35.69	30.42	33.07	201.58	164.30	201.58	172.8	132.67	159.99



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Fax: 91-11-23712680. Website: www.jkpaper.com
CIN-L2101 GJ1960PLC018099

Monitoring results of Liquor Fired Boiler													
Period	Sampling locations	PM			H ₂ S			SO ₂			NO ₂		
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
Oct'22 – March'23	Liquor Fired Boiler	39.45	33.15	37.14	6.35	5.74	6.05	142.60	124.31	135.18	170.51	150.70	160.48

Sl. No.	Specific Condition	Status
3.	The total water requirement after expansion shall not exceed 40,000 KLD. The industry should ensure the compliance of the standards for discharge of the treated effluent from the unit as stipulated under the EPA rules or SPCB whichever is more stringent. The company shall make efforts to limit the water consumption up to 75 m ³ /ton of product. Adequate steps including use of modern RO/UF based technologies should be used to increase recycling and reduce water consumption. The wastewater shall be discharged only after meeting the CPCB norms. Efforts shall be made to achieve 10 Kappa by using H ₂ O ₂ . The Company shall harvest the rainwater to recharge the ground water.	<p>Our freshwater consumption is well within 40,000 M³/day.</p> <p>Our specific water consumption is getting reduced significantly by implementing different water saving schemes year by year. Last year water consumption is 27.73 M³ (April'22 to March'23) per ton of paper. The detail data is given in the graph Anx-II.</p> <p>Two stage oxygen delignification processes have been adopted at Pulp mill to control 10 kappa. Presently the rainwater is going to recharge wells.</p>
4.	Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board and regular monitoring should be carried out for all relevant parameters to maintain the effluent treatment efficiency. The report shall be submitted to Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.	Influent and effluent monitoring stations are set up in consultation with the SPCB. pH, BOD, COD, TSS is being closely monitored regularly to maintain the effluent treatment efficiency. Moreover, all the above parameters are being monitored through on-line monitoring system and the real time data is being transmitted to CPCB and OSPCB. The AOX content in treated and untreated effluent being tested through Central Pulp and Paper Research Center, Saharanpur. The test results of pH, BOD, COD, TSS are being sent to SPCB on monthly basis. We have also tested the different parameters of Treated and untreated effluent, Upstream and Downstream of River Nagavali from Vimta Lab, Hyderabad and the monitoring data are attached in Annexure – III, IV respectively.


Gen. Manager (EHS)

Stage wise Effluent Monitoring Data															
Period	Monitoring station	pH			SS (mg/l)			COD (mg/l)			BOD (mg/l)			AOx (mg/l)	
		Max	Min	Avg	Max	Min	Max	Min	Avg	Max	Min	Max	Min	Avg	
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Sl. No.	Specific Condition	Status
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7.	The company shall submit the comprehensive water management plan along with monitoring plan for the ground water quality and the level, within three months from date of issue of this letter.	Since long, we are monitoring ground water quality twice a year at three places around the factory and the reports are being submitted regularly to your office. The recent analysis report is enclosed in the Annexure - VI. With respect to ground water level, we are capturing the month wise data since Oct'11 with the help of a level indicator from bore well. The month wise ground water level data is as under (From October' 22 – March' 23).

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Ground water level in (m)	19.0	19.2	19.5	19.6	19.9	20.3


 Gen. Manager (EHS)

Sl. No.	Specific Condition	Status
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4	Chest 'X"Ray	--	--	--	--	--	--
5	Audiometry Test	--	--	--	--	--	--
6	Vertigo	--	--	--	--	--	--


 Gen. Manager (EHS)

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14.	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 22 nd December, 2010 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.	We have prepared action plan to implement all the commitments made to the public during the Public Hearing through our CSR activities. The status of commitments made during the Public Hearing is as under.

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B.	Start ITI / Training	Support 10 SC / ST Students from the vicinity to pursue ITI course	<ul style="list-style-type: none"> Provided financial support to 12 students pursuing technical courses from Sanochandili and Badachandili village. <p>Note: - Apart from the above we shortlisted 12 students for JK Meritorious Scholarship during this FY 2022-23.</p>
		Government of Odisha has approved an ITI at Rayagada and the same is under construction. JKPM is proposing to take over the said ITI once it is completed and shall convert it into a Centre of Excellence and run the same under Central Govt. Scheme.	<ul style="list-style-type: none"> JKPM has signed an agreement with the said ITI for taking in adequate nos. of apprentices.


 Gen. Manager (EHS)

Sl. No.	Issue in Public hearing	Activity Proposed	Present Status
C.	Gopanbandhu Park situated at Jaykaypur, approach road to nearby villages are not well developed.	As a part of road widening initiative taken up by the State Government, the park which is situated at the centre of the road is going to be relocated. Maintenance of the park shall be resumed once the said relocation of the park takes place. Approach roads to nearby villages are being developed to and from Rayagada by Government through World Bank Funding.	<ul style="list-style-type: none"> Gopabandhu Park was renovated and maintained by us in a regular manner. Note: Apart from this JKPM-CSR has taken initiatives to support Chandili GP for cleaning of Market area since last five years.

Sl. No.	Specific Condition	Status
15.	At least 5 % of the total cost of the project shall be earmarked towards the enterprise social commitment based on Public Hearing & social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	Please refer to our Annexure – VII for detailed proposal and expenditure on CSR.
16.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Our project already completed and commissioned, and all temporary structures have been removed.
17.	Increase the number of Rainwater harvesting pits from 8 nos. to 12 nos.	We have made 16 nos. Rainwater harvesting pits.
18.	5% increase in green belt plantation within project boundary i.e from the current 45% to 50% of project area.	At present, from our total project area, 41.11% have been covered with green belt. In addition to that, we are planning to develop more green belt in future.
19.	Installation of advanced ESP controllers to improve the efficiency of all ESPs.	We have total 18 fields and we have provided advance ESP controllers in all fields.
20.	Solar lighting for all streets and parking area in colony.	A part of our colony streets and parking area has been converted to Solar light (about 20 lights) and the remaining will be converted in phase manner.
21.	Combustion of secondary sludge in recovery boiler, thus, eliminating requirement for disposal on land.	Received approval from Central Pollution Control Board, New Delhi and Odisha State Pollution Control Board for Combustion of secondary sludge in recovery boiler.


 Gen. Manager (EHS)

Sl. No.	General Condition	Status
i	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board and the State Government.	Noted and being adhered to.
ii	No further expansion or modernization in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted
iii	One ambient air quality monitoring station shall be installed in downwind direction. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with UPPCB and report submitted to the OPCB quarterly and to the Ministry's Regional Office at Bhubaneswar half-yearly.	Ambient air quality and stack emissions are being monitored regularly and report submitted to the OPCB monthly and to the Ministry's Regional Office at Bhubaneswar half-yearly. Three online ambient air quality monitoring station has been installed and real time data is being transmitted to Odisha State Pollution Control Board. The last report of Ambient Air Quality is submitted herewith as Anx – VIII
iv	In-plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handlings etc. shall be provided. Bag filters shall be provided at transfer points and dedusting stacks to control fugitive emissions. Water sprinkling, black topping of internal roads and green belt development shall be carried out to control the fugitive dust emissions due to vehicular movement. Dust suppression and extraction system shall be provided to control secondary fugitive emission during raw material handling and processing.	Full proof pollution control technologies have been already adopted at all the dust prone areas and fugitive emissions and the same being monitored regularly. The fugitive emissions data is being collected at 5 different places (Areas: Coal Handling area, Fly ash transportation area, Lime handling area, Chipper House old and Chipper House New Area). We have taken all care to adopt latest pollution control measures at different areas for dust suppression.
v	Proper housekeeping and cleanliness must be maintained within and outside the plant.	Noted
vi	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	As per the requirements different noise control equipments have been adopted at different areas to keep the noise level below the prescribed standard and being monitored regularly. The Noise last report is submitted herewith as Anx – IX
vii	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee should be maintained separately.	Our company has its own medical center, where apart from other treatment facilities; first aid facilities are available for all employees. Regular health checkup of all employees has been carried out and Individual health report of all employees is available.


Gen. Manager (EHS)

Sl. No.	General Condition	Status
viii	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP and Public Hearing report.	This is noted and care is being taken.
ix	The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office at Bhubaneswar / SPCB /CPCB. A six-monthly compliance status report shall be submitted to monitoring agencies.	Being submitted regularly.
x	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. shall be ensured for construction workers during the construction phase so as to avoid felling of trees and pollution of water and the surroundings.	Construction work Completed.
xi	The project proponent shall have a scheme for social up-liftment in the surrounding villages with reference to contribution in road construction, education, establishment of health centers, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs.	Being done regularly
xii	A separate Environmental Management Cell equipped with full-fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of Senior Executive.	An Environment Cell has been already set up with 10 MCS (Staff & Officers) and is headed by General Manager (EHS).
xiii	The requisite amount shall be earmarked towards capital cost and recurring cost/annum for implementing environment pollution control measures respectively and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule for implementing all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	Always Separate fund is being allocated for implementation of environment pollution control measures.
xiv	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Being followed.
xv	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.	Being done on regular basis.


 Gen. Manager (EHS)

JK PAPER LTD.

Unit : J.K. Paper Mills, Jaykaypur. Distt. Rayagada. Odisha-765017



Sl. No.	General Condition	Status
xvi	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	The environmental statement in Form-V for the financial year 2021 – 22 is already submitted in your office vide our letter no. JKPW/CTS/ 08.04D/66, Dt. 21.09.22. Also, it is uploaded in our website.
xvii	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at the Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office at Bhubaneswar.	Already this has been advertised in two newspapers (The New Indian Express (English) & The Sambad (Oriya), on 06.05.11 & 05.05.11 respectively)
10	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
11	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
12	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Noted

Thanking you.

Yours faithfully,
For J K Paper Limited

Executive Vice President (Works)



Works : J.K. Paper Mills. Ph : 91-6856-233770/233550/234077. Fax: 91-6856-234078
E-mail: jkpaper@jkpm.jkmail.com

Regd. Office : P.O. Central Pulp Mills. Fort Songadh, Distt. Tapi (Guj.)-394660. Ph: 91-2624-220228/220278-80.
Fax: 91-2624-220.38 Cable: Cenpulp. E-mail: cpm@cpmjk.jkmail.com

Admn. Office : Nehru House, 4, Bahadur Shah Zafar Marg, New Delhi-110002. Ph: 91-11-33001112/23311112-5.
Fax: 91-11-23712680. Website: www.jkpaper.com
CIN-L2101 GJ1960PLC018099



(Committed For Better Environment)

Certified for: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2005

Accredited by: NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade

Laboratory Services

- Environment Lab
- Food Lab
- Material Lab
- Soil Lab
- Mineral Lab
- &
- Microbiology Lab

- Infrastructure Engineering
- Water Resource Management
- Environmental & Social Study

- Surface & Sub-Surface Investigation
- Quality Control & Project Management
- Renewable Energy

- Agricultural Development
- Information Technology
- Public Health Engineering

- Mine Planning & Design
- Mineral/Sub-Soil Exploration
- Waste Management Services

Test Report No: Envlab/23-24/R- 00202

Date : 03.04.2023

TEST REPORT

CUSTOMER DETAILS

Customer Name & Address : M/s J.K Paper Mills, Rayagada

SAMPLE DETAILS

Sample Location	ST: Stack attached to Coal Fired Boiler	Sampled by	VCSPL'S Representative
Sample Name	Source Emission	Sampling Procedure	IS 11255
Sample Source	Coal Fired Boiler	Sample Received on	23.03.2023
Instrument Serial No.	81808	Calibration Validity	27/07/2023
Sample Condition	Gaseous Sample Solution Refrigerated		
Sampling Date	22.03.2023	Test Completed on	27.03.2023

SL No.	Name of the Parameters	Testing Methods	Units	Analysis Result
1.	Temperature of Stack	IS 11255(P-3) 2008, CI-6.0	°C	112.0
2.	Velocity of gas	IS 11255(P-3) 2008, CI-10.1	m/sec	10.52
3.	Particulate Matter as PM	IS 11255(Part-I):1985 RA 2014	mg/Nm ³	23.08
6.	Sulphur Dioxide as SO ₂	IS 11255(P-2) RA 2014	mg/Nm ³	387.2
7.	Oxides of Nitrogen as NO _x	IS 11255 (P-7) 2005, RA 2017	mg/Nm ³	102.7
8.	Mercury as Hg	EPA Method 9	mg/Nm ³	0.031





(Committed For Better Environment)

Certified for: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2005

Accredited by: NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade

Laboratory Services
 Environment Lab
 Food Lab
 Material Lab
 Soil Lab
 Mineral Lab
 &
 Microbiology Lab

- Infrastructure Engineering
- Water Resource Management
- Environmental & Social Study

- Surface & Sub-Surface Investigation
- Quality Control & Project Management
- Renewable Energy

- Agricultural Development
- Information Technology
- Public Health Engineering

- Mine Planning & Design
- Mineral/Sub-Soil Exploration
- Waste Management Services

Test Report No: Envlab/23-24/R- 00203

Date :03.04.2023

TEST REPORT

CUSTOMER DETAILS

Customer Name & Address : M/s J.K Paper Mills, Rayagada

SAMPLE DETAILS

Sample Location	ST: Stack Attached to Liquor Fired Boiler	Sampled by	VCSPL'S Representative
Sample Name	Source Emission	Sampling Procedure	IS 11255
Sample Source	Liquor Fired Boiler	Sample Received on	23.03.2023
Instrument Serial No.	81808	Calibration Validity	27/07/2023
Sample Condition	Gaseous Sample Solution Refrigerated		
Sampling Date	22.03.2023	Test Completed on	27.03.2023

SL No.	Name of the Parameters	Testing Methods	Units	Analysis Result
1.	Temperature of Stack	IS 11255(P-3) 2008, Cl-6.0	°C	152
2.	Velocity of gas	IS 11255(P-3) 2008, Cl-10.1	m/sec	13.04
3.	Particulate Matter as PM	IS 11255(Part-I):1985 RA 2014	mg/Nm ³	29.3
6.	Sulphur Dioxide as SO ₂	IS 11255(P-2) RA 2014	mg/Nm ³	43.2
7.	Oxides of Nitrogen as NO _x	IS 11255 (P-7) 2005, RA 2017	mg/Nm ³	221.3
8.	Hydrogen Sulphide as H ₂ S	IS 11255:2006 (Part 4)	ppm	6.8
9.	Total Reduced Sulphur	By Calculation	ppm	0.85





Visiontek Consultancy Services Pvt. Ltd.

Annexure-I

(Committed For Better Environment)

Certified for: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2005

Accredited by: NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade

Laboratory Services

Environment Lab
Food Lab
Material Lab
Soil Lab
Mineral Lab
&
Microbiology Lab

- Infrastructure Engineering
- Water Resource Management
- Environmental & Social Study

- Surface & Sub-Surface Investigation
- Quality Control & Project Management
- Renewable Energy

- Agricultural Development
- Information Technology
- Public Health Engineering

- Mine Planning & Design
- Mineral/Sub-Soil Exploration
- Waste Management Services

Test Report No: Envlab/23-24/R- 00204

Date : 03.04.2023

TEST REPORT

CUSTOMER DETAILS

Customer Name & Address : M/s J.K Paper Mills, Rayagada

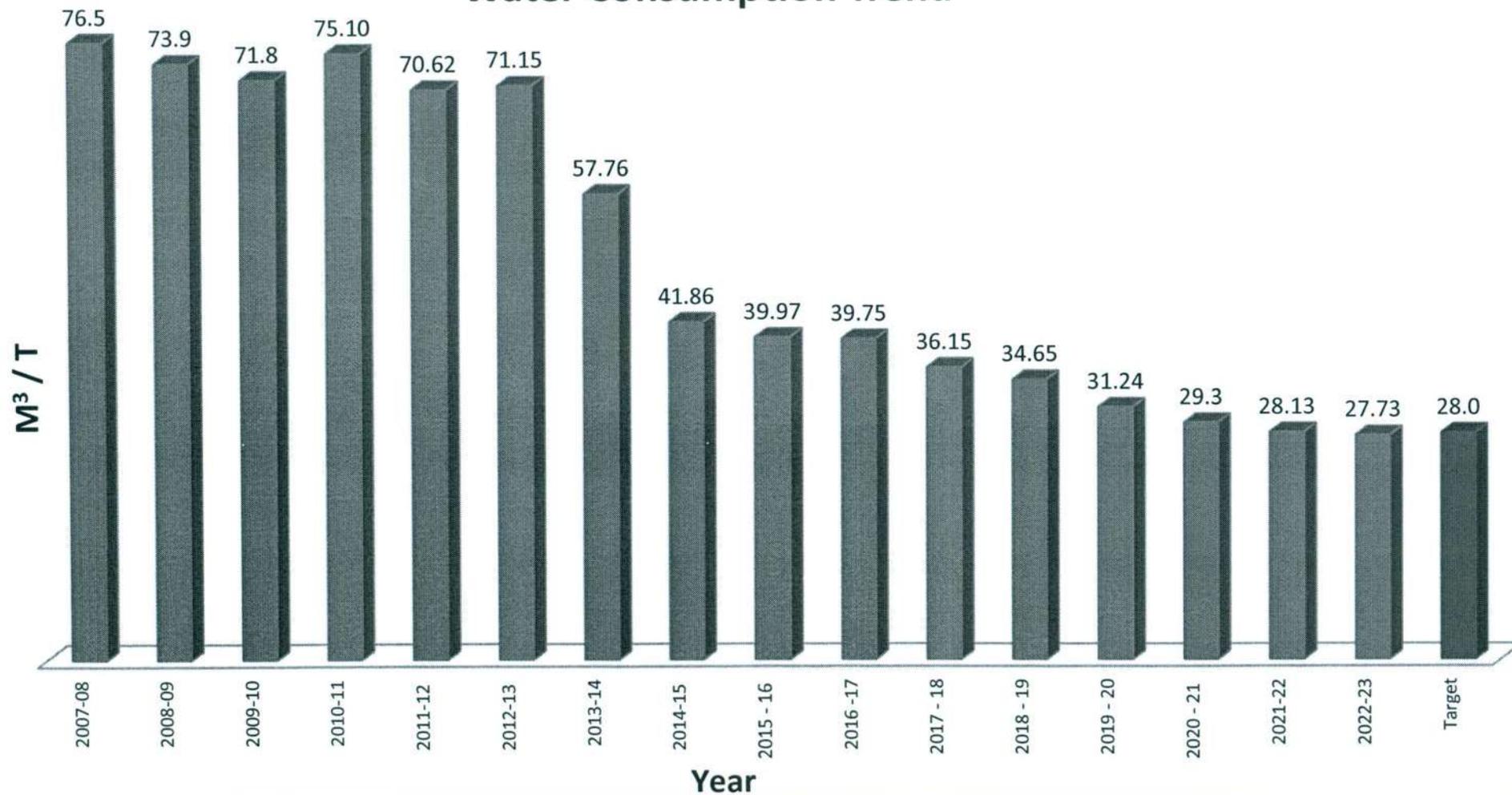
SAMPLE DETAILS

Sample Location	ST: Stack Attached to Lime Kiln Plant	Sampled by	VCSPL'S Representative
Sample Name	Source Emission	Sampling Procedure	IS 11255
Sample Source	Lime Kiln	Sample Received on	24.03.2023
Instrument Serial No.	81808	Calibration Validity	27/07/2023
Sample Condition	Gaseous Sample Solution Refrigerated		
Sampling Date	23.03.2023	Test Completed on	27.03.2023

SL No.	Name of the Parameters	Testing Methods	Units	Analysis Result
1.	Temperature of Stack	IS 11255(P-3) 2008, CI-6.0	^o C	98
2.	Velocity of gas	IS 11255(P-3) 2008, CI-10.1	m/sec	11.48
3.	Particulate Matter as PM	IS 11255(Part-I):1985 RA 2014	mg/Nm ³	34.8
6.	Sulphur Dioxide as SO ₂	IS 11255(P-2) RA 2014	mg/Nm ³	71.2
7.	Oxides of Nitrogen as NO _x	IS 11255 (P-7) 2005, RA 2017	mg/Nm ³	210.6
8.	Hydrogen Sulphide as H ₂ S	IS 11255:2006 (Part 4)	ppm	3.3
9.	Total Reduced Sulphur	By Calculation	ppm	0.92



Water Consumption Trend




Gen. Manager (EHS)



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Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/001
Customer Name : JK PAPER LTD Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	ISSUE DATE : 2023-05-08
	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

Customer Provided Details :			
Sample Name :	ETP Inlet Water		
Brand Name :	NA	Batch/Lot Number :	NA
Mfg. Date :	NA	Exp .Date	NA
Test Required :	As Per TRF		
Others Details if Any	NA		
Lab provided Details :			
Sample Received Date :	2023-04-18	Sample Registration Date :	2023-04-18
Analysis Starting Date :	2023-04-19	Analysis Completion Date :	2023-05-06
Quantity Received :	5 Lit X 1 No.		
Sampling Details :	Sample drawn by Vimta Labs Limited representative as per SOP No.80/08.		

Sample tested as received

TEST RESULTS

S.No.	Test Parameters	Method	UOM	Results
1	Color	IS 3025 (Part 4)	Hazen	650
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	Suspended solid (max)	APHA 2540-D	mg/l	340.5
4	pH value	IS 3025 (Part 11)	-	7.23
5	Temperature	-	°C	25.2
6	Oil & Grease (max)	IS 3025 (Part-39)	mg/l	4.10
7	Total Residual chlorine (max)	IS 3025 (Part 26)	mg/l	<0.1
8	Ammonical nitrogen (as N) max	IS 3025 (Part-34)	mg/l	32.0
9	Total kjeldahl nitrogen (as NH ₃) max	APHA 4500 N	mg/l	28.5

Authorized Signatory

Dr Rahamath SK
Dy Manager

Page | 1 of 3

Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3rd floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India.
Tel No: 040 67404040 Ext: 6071, 6074



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Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/001
Customer Name : JK PAPER LTD Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	ISSUE DATE : 2023-05-08
	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

S.No.	Test Parameters	Method	UOM	Results
10	Free Ammonia (as NH ₃) max	APHA 4500 NH ₃	mg/l	0.40
11	Biochemical oxygen Demand (BOD at 27°C)	IS 3025 (Part-44)	mg/l	261.0
12	Chemical oxygen Demand (COD)	IS 3025 (Part-58)	mg/l	798.61
13	Arsenic (as As) max	APHA 3125	mg/l	< 0.005
14	Mercury (as Hg) max	APHA 3125	mg/l	< 0.005
15	Lead (as Pb) max	APHA 3125	mg/l	< 0.005
16	Cadmium (as Cd) max	APHA 3125	mg/l	< 0.005
17	Hexavalent Chromium (as Cr ⁶⁺) max	APHA 3500 Cr	mg/l	< 0.05
18	Chromium (as Cr) max	APHA 3125	mg/l	< 0.05
19	Copper (as Cu) max	APHA 3125	mg/l	< 0.05
20	Zinc (as Zn) max	APHA 3125	mg/l	< 0.05
21	Selenium (as Se) max	APHA 3125	mg/l	< 0.05
22	Nickel (as Ni) max	APHA 3125	mg/l	< 0.05
23	Cyanide (as CN) max	IS 3025 (Part 27)	mg/l	< 0.02
24	Fluoride (as F) max	APHA 4500 (SPADNS Method)	mg/l	0.35
25	Dissolved Phosphates (as P) max	IS 3025 (Part-44)	mg/l	<0.50

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Dr Rahamath SK
Dy Manager

Page | 2 of 3

Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3rd floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India.
Tel No: 040 67404040 Ext: 6071, 6074



Driven by Quality. Inspired by Science.

Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/001
Customer Name : JK PAPER LTD Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	ISSUE DATE : 2023-05-08
	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

S.No.	Test Parameters	Method	UOM	Results
26	Sulphide (as S) max	IS 3025 (Part 29)	mg/l	<0.05
27	Phenolic Compounds (as C ₆ H ₅ OH) max	IS 3025 (Part 43)	mg/l	< 0.001
28	Iron (as Fe)	APHA 3125	mg/l	< 0.05
29	Vanadium (as V)	APHA 3125	mg/l	< 0.05
30	Nitrate Nitrogen	APHA 4500- NO ₃ ⁻ B	mg/l	21.59
31	Boron	APHA 3125	mg/l	< 0.05
32	Sodium	APHA 3125	mg/l	70.5
33	Residual Sodium Carbonate	Based on APHA 23 rd Edition	mg/l	1.37
34	Dissolved Solids	IS 3025 (Part 16)	mg/l	2282.0
35	Bicarbonate	IS 3025 (Part 23)	mg/l	201.60
36	Chloride	IS 3025 (Part 32)	mg/l	325.5
37	Calcium (as Ca)	IS 3025 (Part 46)	mg/l	240.48
38	Magnesium (as Mg)	IS 3025 (Part 46)	mg/l	12.15
39	Manganese (as Mn)	APHA 3125	mg/l	< 0.05

Results relate only to the sample tested.

Remark: Nil

END OF THE TEST REPORT

Authorized Signatory

Dr Rahamath SK
Dy Manager

Page | 3 of 3

Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3rd floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India.
Tel No: 040 67404040 Ext: 6071, 6074



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Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/002
Customer Name : JK PAPER LTD Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	ISSUE DATE : 2023-05-08
	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

Customer Provided Details :			
Sample Name :	ETP outlet Water		
Brand Name :	NA	Batch/Lot Number :	NA
Mfg. Date :	NA	Exp .Date	NA
Test Required :	As Per TRF		
Others Details if Any	NA		
Lab provided Details :			
Sample Received Date :	2023-04-18	Sample Registration Date :	2023-04-18
Analysis Starting Date :	2023-04-19	Analysis Completion Date :	2023-05-06
Quantity Received :	5 Lit X 1 No.		
Sampling Details :	Sample drawn by Vimta Labs Limited representative as per SOP No.80/08.		

Sample tested as received**TEST RESULTS**

S.No.	Test Parameters	Method	UOM	Results
1	Color	IS 3025 (Part 4)	Hazen	150.0
2	Odour	IS 3025 (Part 5)	-	Agreeable
3	Suspended Solid (max)	APHA 2540-D	mg/l	28.50
4	pH value	IS 3025 (Part 11)	-	7.25
5	Temperature	-	°C	25.2
6	Oil & Grease (max)	IS 3025 (Part-39)	mg/l	1.40
7	Total Residual Chlorine (max)	IS 3025 (Part 26)	mg/l	<0.10
8	Ammonical nitrogen (as N) max	IS 3025 (Part-34)	mg/l	< 1.0

Authorized Signatory

Dr Rahamath SK
Dy Manager

Page | 1 of 3

Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3rd floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074



Driven by Quality. Inspired by Science.

Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/002
Customer Name : JK PAPER LTD	ISSUE DATE : 2023-05-08
Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

S.No.	Test Parameters	Method	UOM	Results
9	Total kjeldahl nitrogen (as NH ₃) max	APHA 4500 N	mg/l	< 1.0
10	Free Ammonia (as NH ₃) max	APHA 4500 NH ₃	mg/l	<0.1
11	Biochemical oxygen Demand (BOD at 27°C)	IS 3025 (Part-44)	mg/l	12.45
12	Chemical oxygen Demand (COD)	IS 3025 (Part-58)	mg/l	148.11
13	Arsenic (as As) max	APHA 3125	mg/l	< 0.005
14	Mercury (as Hg) max	APHA 3125	mg/l	< 0.005
15	Lead (as Pb) max	APHA 3125	mg/l	< 0.005
16	Cadmium (as Cd) max	APHA 3125	mg/l	< 0.005
17	Hexavalent Chromium (as Cr ⁶⁺) max	APHA 3500 Cr	mg/l	< 0.05
18	Chromium (as Cr) max	APHA 3125	mg/l	< 0.05
19	Copper (as Cu) max	APHA 3125	mg/l	< 0.05
20	Zinc (as Zn) max	APHA 3125	mg/l	< 0.05
21	Selenium (as Se) max	APHA 3125	mg/l	< 0.05
22	Nickel (as Ni) max	APHA 3125	mg/l	< 0.05
23	Cyanide (as CN) max	IS 3025 (Part 27)	mg/l	<0.02
24	Fluoride (as F) max	APHA 4500 (SPADNS Method)	mg/l	0.53
25	Dissolved phosphates (as P) max	APHA 4500 P	mg/l	<0.5

Authorized Signatory

Dr Rahamath SK
Dy Manager

Page | 2 of 3

Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3rd floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074



Driven by Quality. Inspired by Science.

Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/002
Customer Name : JK PAPER LTD	ISSUE DATE : 2023-05-08
Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

S.No.	Test Parameters	Method	UOM	Results
26	Sulphide (as S) max	IS 3025 (Part 29)	mg/l	< 0.05
27	Phenolic Compounds (as C ₆ H ₅ OH) max	IS 3025 (Part 43)	mg/l	< 0.001
28	Iron (as Fe)	APHA 3125	mg/l	< 0.05
29	Vanadium (as V)	APHA 3125	mg/l	< 0.05
30	Nitrate Nitrogen	APHA 4500- NO ₃ ⁻ B	mg/l	9.38
31	Boron	APHA 3125	mg/l	< 0.05
32	Sodium	APHA 3500 Na	mg/l	50.5
33	Residual Sodium Carbonate	Based on APHA 23 rd Edition	mg/l	0.84
34	Dissolved Solids	IS 3025 (Part 16)	mg/l	1986
35	Bicarbonate	IS 3025 (Part 23)	mg/l	298
36	Chloride	IS 3025 (Part 32)	mg/l	313.6
37	Calcium (as Ca)	IS 3025 (Part 46)	mg/l	260.52
38	Magnesium (as Mg)	IS 3025 (Part 46)	mg/l	30.54
39	Manganese (as Mn)	APHA 3125	mg/l	< 0.05

Results relate only to the sample tested.

Remark: Nil

END OF THE TEST REPORT

Authorized Signatory

Dr Rahamath SK

Dy Manager

Page | 3 of 3

Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3rd floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074

Vimta

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TC-5418



NABL Scope



Test Report

Issued To:

JK Paper Ltd
Unit: J.K.Paper Ltd.,
Jaykaypur
Dist. Rayagada-765017
Odisha,IND
Ph:9437870042 Mob:7894426573

Registration/Report Number: VLL/VLS/23/01540/001

Issue Date: 2023-04-29
Your Ref: Letter
and Date: 2023-04-26
Lab Ref No.: 1384278
LIMS Report No.: 435425-A



Page 1 of 1

Kind Attn:Mr. Satyajeet Mohanty

Customer Provided Details :			
Sample Name:	ETP INLET WATER		
Batch Number:	NA	AR/Sample Code:	NA
Mfg. Date:	NA	Exp. Date:	NA
Test Required:	Radio Activity (Alpha Emitter & Beta Emitter)		
Other Details if Any:	NA		
Lab Provided Details :			
Sample Received Date:	2023-04-26	Sample Registration Date:	2023-04-26
Analysis Starting Date:	2023-04-28	Analysis Completion Date:	2023-04-29
Quantity Received:	1 L X 2 Nos		
Sampling Details:	SAMPLE DRAWN BY VIMTA LABS LIMITED REPRESENTATIVE MR. G. RAKSHANANDAM		
Other Details if Any:	NA		

ULR-TC541823000011355F

Chemical

Residues in Water

TEST RESULTS

S. No.	Test Parameters	UOM	Method	Results
1	Radio Active Elements Alpha Emitters	Bq/L	IS 14194 (PART-1 & PART-2) : 2013	BDL
2	Beta Emitters	Bq/L	IS 14194 (PART-1 & PART-2) : 2013	BDL

Results relate only to the sample tested.

Remarks: Instrument used:Alpha counting system and Low background Beta counting system; BDL: Below Detection limit;
Limit of Detection for Alpha emitters :0.0114 Bq/L; Limit of Detection for Beta emitters :0.0276 Bq/L.

- END OF THE TEST REPORT -

Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Narasimha Rao Danduprolu
Deputy Manager

Vimta

Driven by Quality. Inspired by Science.



TC-5418



NABL Scope



Test Report

Issued To:

JK Paper Ltd
Unit: J.K.Paper Ltd.,
Jaykaypur
Dist. Rayagada-765017
Odisha,IND
Ph:9437870042 Mob:7894426573

Registration/Report Number: VLL/VLS/23/01540/002

Issue Date: 2023-04-29
Your Ref: Letter
and Date: 2023-04-26
Lab Ref No.: 1384279
LIMS Report No.: 435426-A



Page 1 of 1

Kind Attn:Mr. Satyajeet Mohanty

Customer Provided Details :

Sample Name:	ETP OUTLET WATER		
Batch Number:	NA	AR/Sample Code:	NA
Mfg. Date:	NA	Exp. Date:	NA
Test Required:	Radio Activity (Alpha Emitter & Beta Emitter)		
Other Details if Any:	NA		

Lab Provided Details :

Sample Received Date:	2023-04-26	Sample Registration Date:	2023-04-26
Analysis Starting Date:	2023-04-28	Analysis Completion Date:	2023-04-29
Quantity Received:	1 L X 2 Nos		
Sampling Details:	SAMPLE DRAWN BY VIMTA LABS LIMITED REPRESENTATIVE MR. G. RAKSHANANDAM		
Other Details if Any:	NA		

ULR-TC541823000011356F

Chemical**Residues in Water****TEST RESULTS**

S. No.	Test Parameters	UOM	Method	Results
1	Radio Active Elements Alpha Emitters	Bq/L	IS 14194 (PART-1 & PART-2) : 2013	BDL
2	Beta Emitters	Bq/L	IS 14194 (PART-1 & PART-2) : 2013	BDL

Results relate only to the sample tested.

Remarks: Instrument used:Alpha counting system and Low background Beta counting system; BDL: Below Detection limit;
Limit of Detection for Alpha emitters :0.0114 Bq/L; Limit of Detection for Beta emitters :0.0276 Bq/L.

- END OF THE TEST REPORT -

Scan the QR
code to check
the report
authenticity

Name and Designation of Authorized Signatory

Narasimha Rao Danduprolu
Deputy Manager



KALYANI LABORATORIES PVT. LTD.

PLOT NO-78/944, MILLENIUM CITY PAHAL, BHUBANESWAR-751032, ODISHA



TEST REPORT



NABL ULR NO : TC704323000016626F
Test Report No : 7287 | 1913940F2KLPL/4/23/WATER/08573 **Issue Date:** 12-May-2023
Amendment No : - **Amendment Date** : -
Reference : LETTER NO: JKPW/CTS/08.03A/11/2023, DATED-19.04.2023
Customer Name : JK PAPER LTD.
Address : UNIT:J.K. PAPER MILLS,JAYKAYPUR,DIST-RAYAGADA,ODISHA-765017
Date of receipt : 27-Apr-2023 **Test Commenced On** : 27-Apr-2023 **Test Completion On:** 10-May-2023
Sample Description : WASTE WATER

Sample Condition : SEALED
Sample Identification * : EFFLUENT WATER **Sampling Date** : 19-Apr-2023
Batch No , Lot No : NIL **MFG Date** : NIL **EXP Date** : NIL
Received Quantity : 5L X 2 NOS **Place of Collection** : NA
Sample Collected By : By Customer
Ref.To Sampling Procedure:

Parameters	Unit	Requirement	Result	Test Method
CHEMICAL PARAMETER				
i Phenolic compounds (as C ₆ H ₅ OH)	mg/l, Max	1.0	<0.001	IS 3025 (Part 43):1992, RA 2003
ii Bioassay	%	90 % survival of fish after 96 hrs in 100 % effluent.	100% Survival	IS 6582/CPCB, Laboratory Analytical Techniques**.
iii Sulphide (as S)	mg/l, Max	2.0	<0.01	APHA-24th Edition (4500-S2-F), 2023
iv Chromium Hexavalent	mg/l	0.1	<0.05	APHA 24th Edition (3500-CR-B):2023
TOXIC SUBSTANCES				
i Cadmium (as Cd)	mg/l, Max	2.0	<0.001	IS 3025 (Part 41): 1992 RA 2009
ii Mercury (as Hg)	mg/l, Max	0.01	<0.0005	APHA-24th Edition (3112 B) 2023

Remarks :

Any unusual feature observed during determination :

Analysed By

D Arukha

Mr. Digambar Arukha
For Kalyani Laboratories Pvt. Ltd.



Authorized Signatory

Dr. Debasis Biswal

Dr. Debasis Biswal
For Kalyani Laboratories Pvt. Ltd

End of Test Report



Driven by Quality. Inspired by Science.

Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/006
Customer Name : JK PAPER LTD Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	ISSUE DATE : 2023-05-08
	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

Customer Provided Details :			
Sample Name :	River Upstream Water		
Brand Name :	NA	Batch/Lot Number :	NA
Mfg. Date :	NA	Exp .Date	NA
Test Required :	As Per TRF		
Others Details if Any	NA		
Lab provided Details :			
Sample Received Date :	2023-04-18	Sample Registration Date :	2023-04-18
Analysis Starting Date :	2023-04-19	Analysis Completion Date :	2023-05-06
Quantity Received :	5 Lit X 1 No.		
Sampling Details :	Sample drawn by Vimta Labs Limited representative as per SOP No.80/08.		

Sample tested as received

TEST RESULTS

S.No.	Test Parameter	Method Of Testing	Unit	Result
1	Colour	IS 3025 (Part 4)	Hazen	<1.00
2	pH	IS 3025 (Part 11)	-	8.22
3	Temperature	-	°C	25.2
4	Turbidity	IS 3025 (Part 10)	NTU	< 1.0
5	Conductivity	IS 3025 (Part 14)	µS/cm	215
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	154.0
7	Chlorides as Cl	IS 3025 (Part 32)	mg/L	14.27
8	Sulphate as SO ₄	IS 3025(Part-24)	mg/l	15.16
9	Fluoride as F	APHA 4500 (SPADNS Method)	mg/L	<0.10
10	Copper as Cu	APHA 3125	mg/L	<0.01
11	Lead as Pb	APHA 3125	mg/L	< 0.001
12	Total Chromium as Cr	APHA 3125	mg/L	<0.01
13	Mercury as Hg	APHA 3125	mg/L	< 0.0002
14	Nickel as Ni	APHA 3125	mg/L	< 0.01
15	Zinc as Zn	APHA 3125	mg/L	< 0.01

Authorized Signatory

Dr Rahamath SK
Dy Manager

Page | 1 of 2

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Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3 floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074

Note: This report is subject to the terms and conditions mentioned overleaf
Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone: +91-40-6740 4040

NO: LSF-B 1097654



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Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/006
Customer Name : JK PAPER LTD	ISSUE DATE : 2023-05-08
Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

S.No.	Test Parameter	Method Of Testing	Unit	Result
16	Iron as Fe	APHA 3125	mg/L	< 0.01
17	Calcium	IS 3025 (Part 46)	mg/l	24.08
18	Magnesium as Mg	IS 3025 (Part 46)	mg/l	4.43
19	Sodium as Na	APHA 3500 Na	mg/L	8.8
20	Potassium as K	APHA 3500 K	mg/L	2.5
21	Total Hardness (as CaCO ₃)	IS 3025 (Part 21)	mg/L	93.5
22	Total Alkalinity (as CaCO ₃)	IS 3025 (Part 23)	mg/L	84.0
23	Nitrate	APHA 4500- NO3- B	mg/L	3.37
24	Bicarbonate	IS 3025 (Part 23)	mg/L	102.90

Results relate only to the sample tested.

Remark: Nil

END OF THE TEST REPORT

Authorized Signatory

Dr Rahamath SK
Dy Manager

Page | 2 of 2

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Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3 floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074

Note: This report is subject to the terms and conditions mentioned overleaf
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 Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone: +91-40-6740 4040

NO: LSF-B 1097655



Driven by Quality. Inspired by Science.

Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/007
Customer Name : JK PAPER LTD	ISSUE DATE : 2023-05-08
Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

Customer Provided Details :			
Sample Name :	River Downstream Water		
Brand Name :	NA	Batch/Lot Number :	NA
Mfg. Date :	NA	Exp .Date	NA
Test Required :	As Per TRF		
Others Details if Any	NA		
Lab provided Details :			
Sample Received Date :	2023-04-18	Sample Registration Date :	2023-04-18
Analysis Starting Date :	2023-04-19	Analysis Completion Date :	2023-05-06
Quantity Received :	5 Lit X 1 No.		
Sampling Details :	Sample drawn by Vimta Labs Limited representative as per SOP No.80/08.		

Sample tested as received

TEST RESULTS

S.No.	Test Parameter	Method Of Testing	Unit	Result
1	Colour	IS 3025 (Part 4)	Hazen	<1.00
2	pH	IS 3025 (Part 11)	-	8.00
3	Temperature	-	°C	25.2
4	Turbidity	IS 3025 (Part 10)	NTU	< 1.0
5	Conductivity	IS 3025 (Part 14)	µS/cm	201.0
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	170.0
7	Chlorides as Cl	IS 3025 (Part 32)	mg/L	12.70
8	Sulphate as SO ₄	IS 3025(Part-24)	mg/l	15.81
9	Fluoride as F	APHA 4500 (SPADNS Method)	mg/L	<0.10
10	Copper as Cu	APHA 3125	mg/L	<0.01
11	Lead as Pb	APHA 3125	mg/L	< 0.001
12	Total Chromium as Cr	APHA 3125	mg/L	<0.01
13	Mercury as Hg	APHA 3125	mg/L	< 0.0002
14	Nickel as Ni	APHA 3125	mg/L	< 0.01
15	Zinc as Zn	APHA 3125	mg/L	< 0.01

Authorized Signatory

Dr Rahamath SK
Dy Manager

Page | 1 of 2

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Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3 floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074

Note: This report is subject to the terms and conditions mentioned overleaf
 Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
 Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone: +91-40-6740 4040

NO: LSF-B 1097656



Driven by Quality. Inspired by Science.

Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/007
Customer Name : JK PAPER LTD	ISSUE DATE : 2023-05-08
Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

S.No.	Test Parameter	Method Of Testing	Unit	Result
16	Iron as Fe	APHA 3125	mg/L	< 0.01
17	Calcium	IS 3025 (Part 46)	mg/l	20.5
18	Magnesium as Mg	IS 3025 (Part 46)	mg/l	4.8
19	Sodium as Na	APHA 3500 Na	mg/L	7.80
20	Potassium as K	APHA 3500 K	mg/L	2.8
21	Total Hardness (as CaCO ₃)	IS 3025 (Part 21)	mg/L	92.9
22	Total Alkalinity (as CaCO ₃)	IS 3025 (Part 23)	mg/L	88.8
23	Nitrate	APHA 4500- NO3- B	mg/L	3.94
24	Bicarbonate	IS 3025 (Part 23)	mg/L	88.20

Results relate only to the sample tested.

Remark: Nil

END OF THE TEST REPORT

Authorized Signatory

Dr Rahamath SK
Dy Manager

Page | 2 of 2

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Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3 floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074

Note: This report is subject to the terms and conditions mentioned overleaf
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 Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone: +91-40-6740 4040

NO: LSF-B 1097657



Driven by Quality. Inspired by Science.

Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/003
Customer Name : JK PAPER LTD	ISSUE DATE : 2023-05-08
Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

Customer Provided Details :			
Sample Name :	Ground Water Gettipada Village		
Brand Name :	NA	Batch/Lot Number :	NA
Mfg. Date :	NA	Exp .Date	NA
Test Required :	As Per TRF		
Others Details if Any	NA		
Lab provided Details :			
Sample Received Date :	2023-04-18	Sample Registration Date :	2023-04-18
Analysis Starting Date :	2023-04-19	Analysis Completion Date :	2023-05-06
Quantity Received :	5 Lit X 1 No.		
Sampling Details :	Sample drawn by Vimta Labs Limited representative as per SOP No.80/08.		

Sample tested as received

TEST RESULTS

S.No.	Test Parameter	Method Of Testing	Unit	Result
1	Colour	IS 3025 (Part 4)	Hazen	<1.00
2	pH	IS 3025 (Part 11)	-	6.81
3	Temperature	-	°C	25.2
4	Turbidity	IS 3025 (Part 10)	NTU	< 1.0
5	Conductivity	IS 3025 (Part 14)	µS/cm	265.1
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	148.0
7	Chlorides as Cl	IS 3025 (Part 32)	mg/l	23.82
8	Sulphate as SO ₄	IS 3025(Part-24)	mg/l	4.01
9	Fluoride as F	APHA 4500 (SPADNS Method)	mg/l	0.13
10	Copper as Cu	APHA 3125	mg/l	<0.01
11	Lead as Pb	APHA 3125	mg/l	< 0.001
12	Total Chromium as Cr	APHA 3125	mg/l	<0.01
13	Mercury as Hg	APHA 3125	mg/l	< 0.0002
14	Nickel as Ni	APHA 3125	mg/l	< 0.01
15	Zinc as Zn	APHA 3125	mg/l	< 0.01

Authorized Signatory

Dr Rahamath SK
Dy Manager

Page | 1 of 2

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Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3 floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074

Note: This report is subject to the terms and conditions mentioned overleaf
Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone: +91-40-6740 4040

NO: LSF-B 1097648



Driven by Quality. Inspired by Science.

Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/003
Customer Name : JK PAPER LTD	ISSUE DATE : 2023-05-08
Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

S.No.	Test Parameter	Method Of Testing	Unit	Result
16	Iron as Fe	APHA 3125	mg/l	0.09
17	Calcium	IS 3025 (Part 46)	mg/l	28.0
18	Magnesium as Mg	IS 3025 (Part 46)	mg/l	2.43
19	Sodium as Na	APHA 3500 Na	mg/l	10.5
20	Potassium as K	APHA 3500 K	mg/l	4.0
21	Total Hardness (as CaCO ₃)	IS 3025 (Part 21)	mg/l	98.0
22	Total Alkalinity (as CaCO ₃)	IS 3025 (Part 23)	mg/l	140.0
23	Nitrate	APHA 4500- NO3- B	mg/l	11.48
24	Bicarbonate	IS 3025 (Part 23)	mg/l	67.20

Results relate only to the sample tested.

Remark: Nil

END OF THE TEST REPORT

Authorized Signatory

Dr Rahamath SK
Dy Manager

Page | 2 of 2

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Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3 floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074

Note: This report is subject to the terms and conditions mentioned overleaf
 Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
 Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone: +91-40-6740 4040

NO: LSF-B 1097649



Driven by Quality. Inspired by Science.

Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/004
Customer Name : JK PAPER LTD	ISSUE DATE : 2023-05-08
Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

Customer Provided Details :			
Sample Name :	Ground Water Kalahandipada Village		
Brand Name :	NA	Batch/Lot Number :	NA
Mfg. Date :	NA	Exp .Date	NA
Test Required :	As Per TRF		
Others Details if Any	NA		
Lab provided Details :			
Sample Received Date :	2023-04-18	Sample Registration Date :	2023-04-18
Analysis Starting Date :	2023-04-19	Analysis Completion Date :	2023-05-06
Quantity Received :	5 Lit X 1 No.		
Sampling Details :	Sample drawn by Vimta Labs Limited representative as per SOP No.80/08.		

Sample tested as received

TEST RESULTS

S.No.	Test Parameter	Method Of Testing	Unit	Result
1	Colour	IS 3025 (Part 4)	Hazen	<1.00
2	pH	IS 3025 (Part 11)	-	7.18
3	Temperature	-	°C	25.2
4	Turbidity	IS 3025 (Part 10)	NTU	< 1.0
5	Conductivity	IS 3025 (Part 14)	µS/cm	462.0
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	286.0
7	Chlorides as Cl	IS 3025 (Part 32)	mg/l	27.80
8	Sulphate as SO ₄	IS 3025 (Part-24)	mg/l	16.26
9	Fluoride as F	APHA 4500 (SPADNS Method)	mg/l	0.20
10	Copper as Cu	APHA 3125	mg/l	<0.01
11	Lead as Pb	APHA 3125	mg/l	< 0.001
12	Total Chromium as Cr	APHA 3125	mg/l	<0.01
13	Mercury as Hg	APHA 3125	mg/l	< 0.0002
14	Nickel as Ni	APHA 3125	mg/l	< 0.01
15	Zinc as Zn	APHA 3125	mg/l	< 0.05
16	Iron as Fe	APHA 3125	mg/l	< 0.01

Authorized Signatory

Dr Rahamath SK
Dy ManagerPage | 1 of 2
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Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3 floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074

Note: This report is subject to the terms and conditions mentioned overleaf
Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone: +91-40-6740 4040

NO: LSF-B 1097650



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Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/004
Customer Name : JK PAPER LTD	ISSUE DATE : 2023-05-08
Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

S.No.	Test Parameter	Method Of Testing	Unit	Result
17	Calcium	IS 3025 (Part 46)	mg/l	48.05
18	Magnesium as Mg	IS 3025 (Part 46)	mg/l	2.5
19	Sodium as Na	APHA 3500 Na	mg/l	10.5
20	Potassium as K	APHA 3500 K	mg/l	3.6
21	Total Hardness (as CaCO ₃)	IS 3025 (Part 21)	mg/l	180.0
22	Total Alkalinity (as CaCO ₃)	IS 3025 (Part 23)	mg/l	128.0
23	Nitrate	APHA 4500- NO3- B	mg/l	31.0
24	Bicarbonate	IS 3025 (Part 23)	mg/l	147.0

Results relate only to the sample tested.

Remark: Nil

END OF THE TEST REPORT

Authorized Signatory

Dr Rahamath SK
Dy Manager

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Sample tested at and report issued by: VIMTA LABS LTD, # 9-13-45/2-9-3, 3 floor Above Tanishq, 'N' Circle, VIP Road, Visakhapatnam-530003, Andhra Pradesh, India. Tel No: 040 67404040 Ext: 6071, 6074

Note: This report is subject to the terms and conditions mentioned overleaf
 Vimta Labs Ltd., Life Sciences Campus, Plot No. 5, MN Park (Formerly Alexandria Knowledge Park),
 Genome Valley, Shamirpet, Medchal - Malkajgiri - 500 101, Hyderabad, Telangana, India. Phone: +91-40-6740 4040

NO: LSF-B 1097651



Driven by Quality. Inspired by Science.

Test Report

ISSUED TO :-	REPORT NUMBER : VLL/VSKP/23/00087/005
Customer Name : JK PAPER LTD	ISSUE DATE : 2023-05-08
Customer Address : UNIT: JK Paper Mills, Jaykapur – 765017, Rayagada, Odisha	CUSTOMER REFERENCE : PO No. 2248010819, Dtd. 11-03-2023
	CUSTOMER REFERENCE DATE : 2023-04-17

Customer Provided Details :			
Sample Name :	Ground Water Sano Chandili Village		
Brand Name :	NA	Batch/Lot Number :	NA
Mfg. Date :	NA	Exp .Date	NA
Test Required :	As Per TRF		
Others Details if Any	NA		
Lab provided Details :			
Sample Received Date :	2023-04-18	Sample Registration Date :	2023-04-18
Analysis Starting Date :	2023-04-19	Analysis Completion Date :	2023-05-06
Quantity Received :	5 Lit X 1 No.		
Sampling Details :	Sample drawn by Vimta Labs Limited representative as per SOP No.80/08.		

Sample tested as received

TEST RESULTS

S.No.	Test Parameter	Method Of Testing	Unit	Result
1	Colour	IS 3025 (Part 4)	Hazen	<1.00
2	pH	IS 3025 (Part 11)	-	6.90
3	Temperature	-	°C	25.2
4	Turbidity	IS 3025 (Part 10)	NTU	< 1.0
5	Conductivity	IS 3025 (Part 14)	µS/cm	370.0
6	Total Dissolved Solids	IS 3025 (Part 16)	mg/l	212.0
7	Chlorides as Cl	IS 3025 (Part 32)	mg/l	19.85
8	Sulphate as SO ₄	IS 3025(Part-24)	mg/l	14.17
9	Fluoride as F	APHA 4500 (SPADNS Method)	mg/l	0.15
10	Copper as CU	APHA 3125	mg/l	<0.01
11	Lead as Pb	APHA 3125	mg/l	< 0.001
12	Total Chromium as Cr	APHA 3125	mg/l	<0.01
13	Mercury as Hg	APHA 3125	mg/l	< 0.0002
14	Nickel as Ni	APHA 3125	mg/l	< 0.01
15	Zinc as Zn	APHA 3125	mg/l	< 0.01

Authorized Signatory

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Dy Manager

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	CUSTOMER REFERENCE DATE : 2023-04-17

S.No.	Test Parameter	Method Of Testing	Unit	Result
16	Iron as Fe	APHA 3125	mg/l	< 0.01
17	Calcium	IS 3025 (Part 46)	mg/l	27.5
18	Magnesium as Mg	IS 3025 (Part 46)	mg/l	14.58
19	Sodium as Na	APHA 3500 Na	mg/l	15.5
20	Potassium as K	APHA 3500 K	mg/l	3.8
21	Total Hardness (as CaCO ₃)	IS 3025 (Part 21)	mg/l	140.1
22	Total Alkalinity (as CaCO ₃)	IS 3025 (Part 23)	mg/l	192.0
23	Nitrate	APHA 4500- NO3- B	mg/l	14.17
24	Bicarbonate	IS 3025 (Part 23)	mg/l	109.20

Results relate only to the sample tested.

Remark: Nil

END OF THE TEST REPORT

Authorized Signatory

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NO: LSF-B 1097653

JKPW/CTS/08.04A/ 10 /2023

April 14, 2023

The Member Secretary

Odisha Pollution Control Board,
Paribesh Bhawan,
A/118, Nilakanthanagar, Unit-VIII,
BHUBANESWAR – 751 012,

Re: Compliance report of CREP conditions for large pulp and paper and its action plan.

Dear Sir,

As per the decision taken by CREP task force along with Indian Paper Manufacturer Association (IPMA), we are submitting the monthly compliance of above. The compliance is as follows:

Sl.	Particulars	Implementation Schedule	JKPM Status
1	Discharge of AOX kg/ton of paper	AOX 1.5 kg/T of paper within 2 years. AOX 1.0 kg/T of paper in 5 years	Already achieved
2	Installation of lime kiln	Within 4 yrs	Lime Kiln Plant with P.G Plant was in continuous operation since 01.07.2009. In September 2013, we have commissioned a New Lime Kiln Plant with higher capacity and shut the earlier Lime Kiln Plant.
3	Waste water discharge m ³ /ton of paper	Less than 140 cum / tonne of paper with in 2 years Less than 120 cum / tonne in 4 years for units installed before 1992 Less than 100 cum / tonne of paper per units installed after 1992	Already achieved
4	Odour control by burning the reduced sulphur emissions in the boiler/ Lime kiln	Installation of odour control system in 4 yrs	<ul style="list-style-type: none"> • 0.2 to 0.6 mg/ Nm³ H₂ S is being emitted from our LF boiler against the norm of 10 mg/ Nm³. • In continuous pulping system, the pulp is not blown under pressure to the blow tank; hence the odour released is minimal compared to conventional cooking process. • NCG is being collected from SRP and converted to Methanol and being burnt in lime kiln plant.

5	Utilization of treated effluent for irrigation	Utilization of treated effluent for irrigation wherever possible	At present, we had made a demo cultivation field with 30 Acres of land with Treated effluent water for local farmers. JKPM do not have land to irrigate. Matter is under active consideration of State Government. We are in the process of diverting a part of our treated for gardening purpose.
6	Colour removal from the effluent	Indian paper manufacturers association to take up project with Central pulp and paper research institute	JKPM black liquor (Chemical) recovery % is more than 98. Discharged color is coming is less than 300 Pt Co. Effort is made to reduce the color of discharge treated Effluent.

Thanking you.

Yours faithfully,

For J K Paper Mills



Executive Vice President (Works)

Copy to:

1. Member Secretary, Central Pollution Control Board, Paribesh Bhawan, East Arjun Nagar, Shahdra, Delhi-110092
2. Regional Officer, OPCB, Kasturi Nagar, Rayagada
3. Joint Director (S), MoEF, Eastern Regional Office, A-3, Chandrasekharpur, Bhubaneswar-23
4. Sr. GM (PR), Bhubaneswar.

JK PAPER LTD: UNIT: JKPM**EXPENDITURE INCURRED ON CORPORATE SOCIAL RESPONSIBILITY FOR 2022-23 &
BUDGET FOR 2023-24**

Activity	JKPM Expenditure FY 2022-23 (Rs lakh)	JKPM Budget FY 2023-24 (Rs Lakh)
Agriculture	80.04	115.58
SHG/PG	109.97	122.78
Youth Engagement	47.27	50.66
Digital Class/Education	51.33	60.35
YEDP (Youth Entrepreneurship)	100	100
Infrastructure Development	30.06	47.08
Health/Drinking Water	14.54	33.55
Education (PwD)	8.54	10
Sports Development	4.05	10
Covid 19	3.17	-
Total (Rs Lakh)	448.97	550



Executive Vice President (Works)



Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Certified for: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2005

Accredited by: NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade

Laboratory Services

Environment Lab
Food Lab
Material Lab
Soil Lab
Mineral Lab
&
Microbiology Lab

● Infrastructure Engineering
● Water Resource Management
● Environmental & Social Study

● Surface & Sub-Surface Investigation
● Quality Control & Project Management
● Renewable Energy

● Agricultural Development
● Information Technology
● Public Health Engineering

● Mine Planning & Design
● Mineral/Sub-Soil Exploration
● Waste Management Services

Test Report No: ENVLAB/23-24/TR- 00199

Date: 03.04.2023

TEST REPORT

Customer Name & Address :

M/s J.K Paper Mills, Rayagada

Sample Location & Code	AAQ 1: Near LPS School	Sampled by	VC SPL'S Representative
Sample Description	Ambient Air	Sampling Procedure	IS 5182.
Sample Source	J.K Paper Mills Buffer Zone	Sample Received on	23.03.2023
Instrument Serial No.	2528-DTE-2019, 762-DTD-2019	Calibration Validity	26.07.2023, 27.07.2023
Sample Condition	Gaseous Sample Solution Refrigerated		
Sampling Date	22.03.2023	Test Completed on	23.03.2023 TO 27.03.2023

Parameters

S L N o	Sampling Date	Particulate Matter as PM ₁₀ (µg/m ³)	Particulate Matter as PM _{2.5} (µg/m ³)	Sulphur Dioxide as SO ₂ (µg/m ³)	Oxides of Nitrogen as NO _x (µg/m ³)
1	22.03.2023	38	22.6	15.3	11.2
NAAQ Standard		100	60	80	80
Testing Method		Gravimetric IS 5182: Part 23	Gravimetric EPA CFR-40 (pt 50) Appendix-1	Improved West & Geake Method IS 5182 (Part-2) RA2006	Modified Jacob & Hochheiser Method IS 5182 (Part-6) RA2006





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● Information Technology
● Public Health Engineering

● Mine Planning & Design
● Mineral/Sub-Soil Exploration
● Waste Management Services

Test Report No: ENVLAB/23-24/TR- 00200

Date :03.04.2023

TEST REPORT

Customer Name & Address :

M/s J.K Paper Mills, Rayagada

Sample Location & Code	AAQ 2: Singapore Railway Station	Sampled by	VCSPL'S Representative
Sample Description	Ambient Air	Sampling Procedure	IS 5182.
Sample Source	J.K Paper Mills Buffer Zone	Sample Received on	23.03.2023
Instrument Serial No.	2532-DTE-2019, 777-DTD-2019	Calibration Validity	26.07.2023, 27.07.2023
Sample Condition	Gaseous Sample Solution Refrigerated		
Sampling Date	22.03.2023	Test Completed on	23.03.2023 TO 27.03.2023

Parameters

SL No	Sampling Date	Particulate Matter as PM ₁₀ (µg/m ³)	Particulate Matter as PM _{2.5} (µg/m ³)	Sulphur Dioxide as SO ₂ (µg/m ³)	Oxides of Nitrogen as NO _x (µg/m ³)
1	22.03.2023	41	21.4	10.3	15.3
NAAQ Standard		100	60	80	80
Testing Method		Gravimetric IS 5182: Part 23	Gravimetric EPA CFR-40 (pt 50) Appendix-1	Improved West & Geake Method IS 5182 (Part-2) RA2006	Modified Jacob & Hochheiser Method IS 5182 (Part-6) RA2006





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- Mineral/Sub-Soil Exploration
- Waste Management Services

Test Report No: ENVLAB/23-24/TR- 00201

Date :03.04.2023

TEST REPORT

Customer Name & Address :

M/s J.K Paper Mills, Rayagada

Sample Location & Code	AAQ 3: Guest House	Sampled by	VCSPL'S Representative
Sample Description	Ambient Air	Sampling Procedure	IS 5182.
Sample Source	J.K Paper Mills Buffer Zone	Sample Received on	24.03.2023
Instrument Serial No.	2538-DTE-2019, 778-DTD-2019	Calibration Validity	26.07.2023, 27.07.2023
Sample Condition	Gaseous Sample Solution Refrigerated		
Sampling Date	23.03.2023	Test Completed on	24.03.2023 TO 28.03.2023

Parameters

SL No	Sampling Date	Particulate Matter as PM ₁₀ (µg/m ³)	Particulate Matter as PM _{2.5} (µg/m ³)	Sulphur Dioxide as SO ₂ (µg/m ³)	Oxides of Nitrogen as NO _x (µg/m ³)
1	23.03.2023	37	14.6	30.2	41.2
NAAQ Standard		100	60	80	80
Testing Method		Gravimetric IS 5182: Part 23	Gravimetric EPA CFR-40 (pt 50) Appendix-1	Improved West & Geake Method IS 5182 (Part-2) RA2006	Modified Jacob & Hochheiser Method IS 5182 (Part-6) RA2006





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● Mineral/Sub-Soil Exploration
● Waste Management Services

Test Report No: Envlab/23-24/TR- 00205

Date: 03.04.2023

TEST REPORT

Customer Name & Address : M/s J.K Paper Mills, Rayagada

SAMPLE DETAILS

Sample Code	N1-N23	Sampled By	VC SPL'S Representative
Sample Name	Noise	Sampling Procedure	IEC 61672-1(2002-05) Class-I.
Sample Date	Noise Level (Core Zone)	Sampling Date	23.03.2023
Instrument Serial No.	434-DTI-2019	Calibration Validity	07.08.2023
Sample Condition	NA	Test Completed On	NA

Location ID	Location	Noise Level in dB(A) Leq	Time of Measuring
Work Place Environment			
N-01	Chipper House (Old)	7	8.40 am
N-02	Chipper House (New)	6	8.55 am
N-03	Pulp Mill Operating Floor	6	9.20 am
N-04	Pulp Mill Control Room	6	9.45 am
N-05	Stock Preparation (Disc Refining Area)	7	10.10 am
N-06	Stock Preparation (PM-6)	6	11.30 am
N-07	Paper Machine Floor (Old)	6	11.48 am
N-08	Paper Machine Floor (New)	6	11.55 am
N-09	Cutter (Old)	6	10.15 am
N-10	Cutter (New)	7	10.42 am
N-11	Wills Cutter	6	12.10 pm
N-12	LF6 Operation Floor	6	12.20 pm
N-13	LF6 Control Room	6	12.30 pm
N-14	CF6 Operation Floor	6	12.45 pm
N-15	CF6 Control Room	6	01.00 pm
N-16	30 MW Control Room	6	01.30 pm
N-17	25 MW Control Room	6	01.15 pm
Standard as per CPCB		7	
Office Area			
N-18	Administrative Office	5	3.10 pm
N-19	CCR Building	5	3.45 pm
N-20	Mechanical Work Shop	6	4.10 pm
N-21	Technical Building	6	4.35 pm
N-22	HRD Office	5	5.00 pm
Standard as per CPCB		7	
Residential Area			
N-23	Guest House	5 ₆	5.30 pm
Standard as per CPCB		55.0	

