



Ref: JKPW/ CTS/08.04A/ 14 /2019,

May 27, 2019

Director (S)
Government of India, Ministry of Environment & Forests,
Eastern Regional Office,
A-3, Chandrasekharpur.
BHUBANESWAR-23

Re: Expansion Cum modernization in Paper & Paper Board from 1,20,000 TPA to 3,20,000 TPA and Pulp from 1,10,000 BDTPA (bone dry tones per annum) to 2,30,000 BDTPA and CPP from 20 MW to 55 MW by replacement of some of the old machineries within existing mill area at Village Chandili, District Rayagada, Orissa by M/s J K Paper Limited - Environmental Clearance Compliance.

Your Reference: letter no: i) J-11011/172/2010-IA-II(I), Dated 20th April 2011
ii) J-11011/172/2010-IA-II(I), Dated 10th May 2013
iii) J-11011/172/2010-IA-II(I), Dated 18th June 2018

Dear Sir,

With reference to the above letter, we are here with sending six monthly progress of implementation of Environmental Conditions as mentioned here under. We would also like to inform you that, we have commissioned our all new equipments and started our commercial production since 30.08.2013.

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	We have obtained Environmental Clearance letter from MoEF cc, New Delhi vide letter no. J-11011/172/2010-IA-II(I), Dated 20 th April 2011 and amended Clearance vide letter no. J-11011/172/2010-IA-II(I), Dated 10 th May 2013 and letter no. J-11011/172/2010-IA-II(I), Dated 18 th June 2018. Obtained Consent to Operate for Air and Water from Odisha State Pollution Control Board vide order no. 3789/IND-I-CON-41, dt. 29.03.2018 and valid up to 31.03.2020. 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.



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CIN-L21010GJ1960PLC018099

Sl. NO.	Specific Condition	Status
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.	In our new CFBC boiler with the latest design of our ESP, we are able to achieve the particulate emission below 50 mg/Nm ³ . In chemical recovery boiler, we have adopted bigger size economizer with high efficient ESP instead of primary and secondary ventury scrubber, to control emissions. We have adopted bleach scrubber in bleaching section by using caustic solution which is more effective than lime. 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 Oct'18 to Mar'19 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

Monitoring results of Coal Fired Boiler										
Period	Sampling locations	PM			SO ₂			NO ₂		
		Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
Oct'18 – Mar'19	Coal Fired Boiler	45.22	31.62	37.35	178.3	160.3	169.29	182.4	175.6	178.15

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'18 – Mar'19	Liquor Fired Boiler	43.65	40.44	41.78	6.12	4.75	5.57	165.4	140.8	152.95	180.3	170.2	174.74

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 /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 rain water to recharge the ground water.	Our fresh water consumption is well within 40,000 M ³ /day. Our specific water consumption is getting reduced drastically by implementing different water saving schemes year by year. The present water consumption is 34.65 M ³ (April'18 to March'19) per tone of paper. The detail data is given in the graph Anx-II. Two stage oxygen delignification processes has been adopted at Pulp mill to control 10 kappa. Presently the rain water is going to recharge wells.
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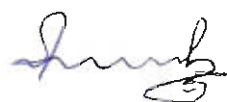


Sl. NO.	Specific Condition	Status
4.	Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board and regular monitoring should be carried out for all relevant parameters to maintain the effluent treatment efficiency. The 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 of treated and untreated effluent is being tested by Central Pulp and Paper Research Center, Saharanpur every month. The test results of pH, BOD, COD, TSS and AOX 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.

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	
Oct'18 - Mar'19	Inlet to ET Plant	7.5	6.6	7.1	1252	902	1061.5	1359	918	1144.1	362.7	267.0	312.5	7.95
	Primary clarifier overflow	7.6	6.7	7.2	158	110	132.3	647	514	575.0	264.7	141.7	175.4	
	Activated sludge basin overflow	7.6	6.8	7.2	3015	2594	2781.0							
	Secondary clarifier overflow	7.7	6.8	7.3	32	11	21.5	204	93.6	154.2	22.8	9.0	14.8	3.7

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 0.11 - 0.16 kg/ton of paper production. The AOX content in treated and untreated effluent is being tested by Central Pulp and Paper Research Center, Saharanpur. The test report of March 2019 is attached as Anx- V
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Sl. NO.	Specific Condition	Status
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 - 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'18 to March'19).

Month	Oct -18	Nov -18	Dec -18	Jan -18	Feb -18	Mar -18
Ground water level in (m)	19.7	19.8	19.8	19.9	19.9	20.0

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 2018 – March 2019) is already submitted to your office vide our letter no. JKPW/CTS/08.04A/06, dt.17.04.2019.
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-03/13156, dt. 27.08.2016 and the authorization is valid up to 31.03.2021. 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, 39.12 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 Check up annually for all permanent employees as well as contractor employees and records are being maintained. Details of Occupational health check up for all employees for the year 2018-19 is given below for your reference.



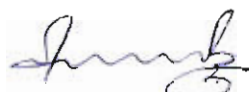
Summary of Health Check Up for the year 2018 -2019

Sl. No	Description	Total No of employees to be covered	Retired, Resign, Death, BBSR	Actual manpower	Actual Done	Balance to be done	Percentage calculation
1	Annual Medical Checkup	1313	30	1283	1218	123	94.93
2	Eye Checkup (General and Colour Blindness)	116	0	116	111	5	95.69
3	Health Checkup of the Food Handlers (Guest House & Canteen Staff)	28	0	28	28	0	100
4	Chest 'X"Ray	59	0	59	56	3	94.92
5	Audiometry Test	106	0	106	84	22	79.25

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 396 Fire Hydrants and 36 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 compliance report is being submitted to your office every month. The last report is submitted herewith as Anx - VII
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.



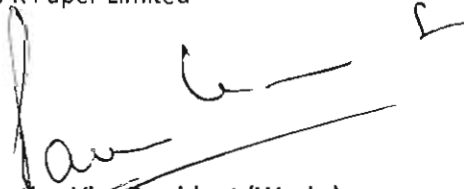
Sl. No.	Issue in Public hearing	Activity Proposed	Present Status
A.	Provision of OHT & water supply in Bada Chandili village	Construction of One Bore Well together with an Overhead Tank and a few distribution points	<ul style="list-style-type: none"> A bore well of 8" with 40,000 liters capacity of Over Head tank constructed at Badachandili village and Water Supplied since 2011 with some taps in the street.
B.	Start ITI / Training	Support 10 SC / ST Students from the vicinity to pursue ITI course	<ul style="list-style-type: none"> We have the provision for Scholarship for Local meritorious ST/SC students those who are perusing Engineering in the Engineering Colleges of Rayagada Dist each and every year. We are providing intensive training (apprenticeship) to the local students every year and in this current session there are 44 nos(ITI),17 B.Tech and 19 Diploma students of Rayagada District. Reimbursement of course fees of 7 St Students those who are perusing Diploma (6) and BCA (1).
		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"> We have submitted our proposal and not received any feedback from the Government.
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 widen to the nearby villages. Gopabandhu Park has been renovated and regular maintenance of the park & taken care of it.
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 – VIII for detailed proposal and expenditure on CSR.



Sl. NO.	Specific Condition	Status
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 completed 12 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, 39.12 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.	60% ESP controllers has been replaced with advance controller. Order has been placed for remaining and will be replaced by 30 th June'19.
20.	Solar lighting for all streets and parking area in colony.	Technical discussion with different suppliers is under progress for finalization.
21.	Combustion of secondary sludge in recovery boiler, thus, eliminating requirement for disposal on land.	We have obtained Consent to Operate from Odisha State Pollution Control Board to burn the secondary sludge in recovery boiler.

Thanking you.

Yours faithfully,
For J K Paper Limited



Executive Vice President (Works)

Copy to:

Joint Director, MoEF, Paryavaran Bhawan, CGO Complex, Lodi Road, New Delhi-110003

Member Secretary, Odisha Pollution Control Board, Bhubaneswar, Odisha

Regional Officer, Odisha Pollution Control Board, Kasturi Nagar, Rayagada



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