F. No. J-11011/194/2013-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Dated: 22nd January, 2016

To

M/s Seshasayee Paper and Boards Ltd.
Vill. Alampalayam, Pallipalay Cauvery R.S.P.O,
Taluk; Tiruchengodu, Dist. Namakkal Tamil Nadu.

Email: kasi@spbltd.com; **Fax No. – 04288 240229**

Subject: Mill Development Plan II (MDP II) to increase the production of existing paper machines capacity (from 120,000 TPA to increase the production to 165,000 TPA of finished paper, upgradation of existing Elemental Chlorine Free (ECF) bl- ched wood pulp line capacity from 115,500 BD TPA to 145,000 BD TPA), bagasse pulp line capacity – (35,000 BD TPA) (No change in capacity), increase in Captive Co-generation power capacity (from 40 MW to 55 MW) M/s Seshasayee Paper and boards Ltd located at village Odapalli, Taluka Tiruchengudu, District Namakkal, Tamil Nadu by - Environment Clearance-regarding.

Sir,

This has reference to your online application No. IA/TN/IND/19121/2013 dated 16th April, 2015 along with copies of EIA/EMP report seeking Environment Clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. The ToRs to the project were awarded by the Ministry vide letter No. J-11011/194/2013-IA.II(I) dated 15th October, 2013 for preparation of EIA/EMP report. The proposed project activity is listed at S.No. 5(i) in Pulp & paper industry, under Category 'A' of the Schedule of EIA Notification 2006 and appraised by the Expert Appraisal Committee (Industry).

2.0 M/s Seshasayee Paper and Boards Ltd. was earlier accorded Environmental Clearance (EC) by the Ministry for expansion cum modernization vide letter No.J-11011/56/95-IA-II (I) dated 21.05.1996 of the integrated pulp and paper from 60,000 TPA to 1,20,000 TPA and Captive co-generation Power Plant of 40 MW at Odapalli Village, Tiruchengode Taluk, Namakkal Dist, Tamilnadu. The PP now proposes for upgradation of existing paper machines capacity from 120,000 TPA to 165,000 TPA of finished paper, upgradation of existing ECF bleached wood pulp line capacity from 115,500 BD TPA to 145,000 BD TPA, upgradation of existing ECF bagasse pulp line capacity - 35,000 BD TPA (No change in capacity) and increase in Captive Co-generation Power capacity from 40 MW to 55 MW, installation of a PCC Plant using CO_2 in the flue gas from Lime Kiln and upgradation of Waste Water Treatment Plant (WWTP) to take care of the additional waste water load. The total land required for the project is 82 acres. No additional land is required for the project, as the proposed expansion is within the existing plant. The project site is reported to lies between

$11^0 21'52.59$ N latitude and $77^0 45'31.41$ E Longitude at an elevation of 157 mtr. above MSL. No national park/ wildlife sanctuary/ reserve forest exist within 10 km of the project. The cost of the project is Rs 300 Crores and the amount allocated for environment protection/ Management is Rs 34 Crores. Benefits from the project are additional direct employment potential to the tune of about 200 persons and creation of indirect employment for about 600 persons. Upliftment of rural economy due to additional plantations and CSR activities benefiting people living in nearby rural areas and farmers.

Following table shows the existing and the proposed capacities:

Description	**Unit**	**Existing**	**Post project**	**Increase**	**Proposal**
Paper Machines					
Paper production	TPA	1,20,000	1,65,000	45,000	Modernisation / Up gradation
Pulp Mill					
Wood Pulp (bleached)	BD TPA	1,15,500	1,45,000	29,500	Modernisation / Up gradation
Bagasse pulp (bleached)	BD TPA	35,000	35,000	--	No change in capacity
O2 generation	Nm^3/h	--	400	400	New
PCC plant	TPD	--	100	100	New
Chemical Recovery Plant					
Evaporation plant	TPH of water evaporation	200	250	50	Up gradation/ Augmentation
Recovery Boiler	TPD of black liquor solids	630	950	320	Augmentation and Addition of 2nd ESP
Recausticising plant	TPD of AA	200	200	--	Up gradation
Lime kiln	TPD of lime	200	200	--	No change
Power Plant					
Power Boilers	TPH of steam	117	217	100	Addition of one more coal fired 100 TPH boiler with ESP
Turbo Generators	MW of power	40	55	15	Addition of one 15 MW TG
Wastewater Treatment	m^3/day	53,000	53,000	--	Up gradation

Following is the details of the raw material required for the project

Input	Units	Existing (Pre-MDP-II)	Post MDP-II	Incremental	Source
Bagasse (Depithed)	BD tpa	57,600	57,800	--	Obtained from Ponni Sugars located adjacent to our mill
Wood	BD tpa	2,27,000	3,17,000	90,000	Additional requirement will be met out from Farm Forestry/ Social forestry in the following areas Trichy, Pudukottai, Karaikudi, Aranthangi Virudhachalam, Vilupuram, Thirukovilur, Cuddalore etc.

3.0 There will be a dedicated Electrostatic Precipitators for control of Particulate Matter (PM) emissions from Power boilers, chemical recovery boilers and lime kiln, covered belt conveyors to transport coal from stock yard to boiler house. The Mill already has Rapid Displacement Heating (RDH) chips cooking system which minimize Non Considerable Gases (NCG) emissions in the digester. As part of the project further NCG control measures will be adopted. The project has already installed alkali scrubbing system in evaporators for mitigating odour.

4.0 Total Fresh water requirement for Existing Operation is 28,000 m^3/day and additional Fresh water for MDP-II 6000 m^3/day is proposed for expansion. Therefore Total Fresh water requirement for post MDP-II is 34,000 m^3/day. There is an existing Water drawl permission available from Cauvery River 68,191 m^3/day. As part of MDP II further water conservation and recycling systems are proposed to be adopted, which will reduce specific water consumption from the current level of 77 m^3 /t of paper to 68 m^3/t of paper (reduction of around 12%).

5.0 The Project Proponent has signed MoU with the local farmers to utilize treated wastewater in an area of 2140 Acres. Fly ash generated from the boilers will be stored in silos and sold to Cement industry and also used for making hollow blocks/ compressed bricks. Sludge from the Primary Clarifier of the ETP will be sold to the board manufacturing units

6.0 Public hearing was conducted by TNPCB on 22nd January, 2015 at Lakshmi Thirumanamandapam, No.4, Kumarapalayam, Main Road, Pallipalayam, Namakkal District. The major issues raised *inter-alia* include impact of air pollution in Ayakattur, Odapalli and Pudhupalayam, odour nuisance caused by the industry, scarcity of drinking water supply to the villages, river water pollution due to mill and also the agricultural lands in the surrounding villages like Odapalli, Pappampalayam, Kokkarayanpattai are affected by using treated effluent of the project etc.

7.0 The matter was considered in the 41st meeting of the Expert Appraisal Committee (Industry) [EAC(I)] held on 1st – 2nd June, 2015 and in the 45th EAC(I) meeting held on 11th - 12th August, 2015 and recommended the project for Environmental Clearance and stipulated specific conditions along with other environmental conditions while considering for accord of Environmental Clearance

8.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry) and hereby decided to grant Environmental Clearance to the above mentioned proposal for expansion and modernisation of existing paper machines capacity from 120,000 TPA to 165,000 TPA of finished paper, upgradation of existing ECF bleached wood pulp line capacity from 115,500 BD TPA to 145,000 BD TPA, upgradation of existing ECF bagasse pulp line capacity - 35,000 BD TPA and expansion of Captive Co-generation Power plant capacity from 40 MW to 55 MW by M/s Seshasayee Paper and Boards Ltd. under the provisions of EIA Notification, 2006 as amended, subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITION:

i. The project proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent discharge, as provided by CPCB and submit report to Ministry and its Regional Office.

ii. The project authority should install multi cyclones, wet scrubbers with the boilers to achieve the particulate emission below 50 mg/Nm^3. The emissions from chemical recovery section should be controlled through primary and secondary venturi scrubbers.

iii. In case of treatment process disturbances/failure of pollution control equipment adopted by the unit, the respective unit should be shut down and should not be restarted until the control measures are rectified to achieve the desired efficiency.

iv. The industry should ensure the compliance of the standards for discharge of the treated effluent from the unit as stipulated under the EPA rules or SPCB. Adequate steps including use of modern RO/UF based technologies should be used to increase recycling and reduce water consumption.

v. Regular monitoring of ground water quality should be carried out in and around the project site by establishing a network of existing wells and installing new piezometers during the operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] should be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment, Forest and Climate Change and its Regional Office, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater quality is affected due to the project activity, necessary corrective measures should be carried out.

vi. The company should submit the comprehensive water management plan along with monitoring plan for the ground water quality and the level, within three months from date of issue of this letter.

vii. The project authority should dispose of hazardous waste as per the provision of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.

viii. The company shou[illegible] develop green belt in 33% of the total land as per the CPCB guidelines to mitigate the effect of fugitive emissions.

ix. Pre-placement medical examination and periodical medical examination of the workers engaged in the project should be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.

x. The company should make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

xi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the pulp and paper sector should be strictly implemented.

xii. All the commitments made to the public during the Public Hearing/Public Consultation meeting should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office.

xiii. Provision should be made for the housing of construction labour with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

xiv. At least 5% of the total cost of the project shall be earmarked towards Enterprise Social Commitment (ESC) based on locals' needs and the activity-wise details and village-wise details along with time-schedule for implementation shall be prepared in consultation with village panchayats and district administration and submitted to the Ministry's Regional Office. Implementation of such programme shall be ensured accordingly in a time-bound manner.

B. GENERAL CONDITIONS:

i. The project authorities must strictly adhere to the stipulations made by the Tamilnadu Pollution Control Board and the State Government.

ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).

iii. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM_{10}, $PM_{2.5}$, SO_2 and NO_X are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Chennai and the SPCB/CPCB once in six months.

iv. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.

v. 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).

vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.

viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.

ix. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Chennai. The funds so provided shall not be diverted for any other purpose.

x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.

xi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Chennai. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM_{10}, SO_2, NOx

(ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Chennai / CPCB / SPCB shall monitor the stipulated conditions.

xiii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Chennai by e-mail.

xiv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEFCC) at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Chennai.

xv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

9.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

10.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

11.0 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 Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

22/01/2016

(Dr. Satish C. Garkoti)
Scientist 'F'

Copy to:-

1. The Secretary, Department of Environment, Govt. of Tamilnadu.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.

3. The Chairman, Tamil Nadu State Pollution Control Board, 100, Anna Salai, Guindy, Chennai-600032
4. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SEZ), Ist and IInd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai – 34
5. Guard File / Record File/Monitoring file.

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Scientist 'F'