



# State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 34 IND 2015

Date: 26-04-2017

To,

Sri. G N Joshi  
Asst. General Manger  
M/s. Indian Cane Power Limited  
Uttur Village, Mudhol Taluk  
Bagalkot District

Sir,

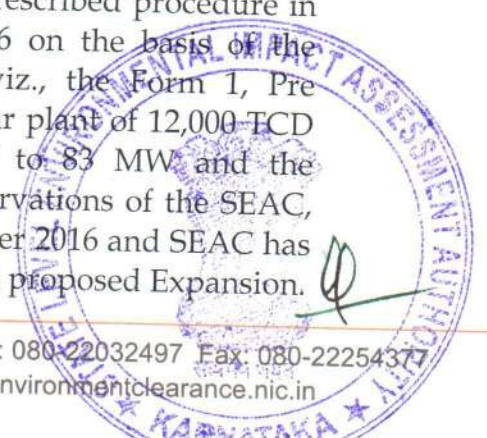
**Sub:** Expansion of Sugar plant of 12,000 TCD to 24,000 TCD and Co-generation plant from 78 MW to 83 MW at Survey. No. 31/8, 32/6, 97/1, 97/2, 98/3, 99, 100, 100/1, 100/5, 102/1, 103/1, 105, 106/4, 107, 116, 118/2, 119/1, 120/2, 136, 139, 140 & 141 of Uttur Village, Mudhol Taluk, Bagalkot District By M/s. Indian Cane Power Limited - Issue of Environment Clearance - Reg.

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This has reference to your online application dated 16<sup>th</sup> December 2015 bearing proposal No/SIA/KA/IND2/5072/2015 addressed to SEIAA, Karnataka and subsequent letters addressed to SEIAA/SEAC Karnataka furnishing further information/seeking prior Environmental Clearance for the above project under the EIA Notification, 2006.

2. It is inter-alia noted that Environmental Clearance has been issued by SEIAA, Karnataka to this project vide letter No. SEIAA 16 IND 2014 Dated 8<sup>th</sup> December 2014 for Expansion of Sugar unit capacity from 5,000 TCD to 12,000 TCD and Co Generation plant from 28 MW to 78 MW.

3. Your application for the Environmental Clearance to the proposed Expansion of Sugar plant from 12,000 TCD to 24,000 TCD and Co-generation plant from 78 MW to 83 MW was appraised as per the prescribed procedure in light of the provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form 1, Pre feasibility report, EMP/EIA Report for Expansion of Sugar plant of 12,000 TCD to 24,000 TCD and Co-generation plant from 78 MW to 83 MW and the additional clarifications furnished in response to the observations of the SEAC, Karnataka, in its meetings held on 28<sup>th</sup>, 29<sup>th</sup> & 30<sup>th</sup> December 2016 and SEAC has recommended for issue of Environmental Clearance for the proposed Expansion.



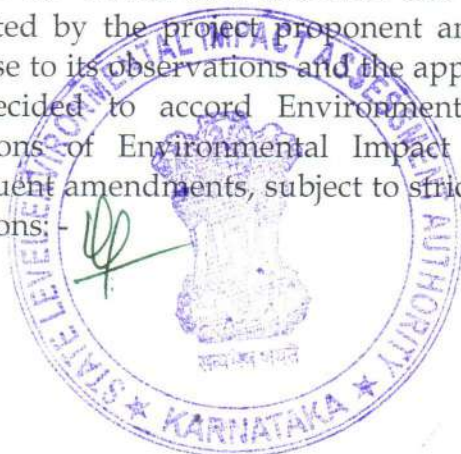


4. It is inter alia, noted that the proposal is for expansion of Sugar Plant from 12,000 TCD to 24,000 TCD and Co-generation plant from 78 MW to 83 MW by M/s. Indian Cane Power Limited. The total land area is 210 Acres out of which 50 Acres area is for Plant area, 20 Acres area is for Raw material Storage yard, 20 Acres area is for Sugar unit, 32 Acres area is for Power plant, 4 Acres area is for Admin , workshop, lab, 14 Acres area is for internal road and 70 Acres area is for Green belt Development. The total water requirement is 7,000 KLD shall be sourced from Ghataprabha River & condensate water. 7200 Tons/day of Baggase shall be produced and used as a fuel for Co-Generation Power Plant. Press mud generation of 960 Tons/day shall be sold to farmers as manure, Boiler fly ash and bottom ash of 37.42 TPD shall be sold to Brick manufactures and Molasses generation of 960 Tons/day shall be transported to distillery units through tankers. The existing 1 No X 125 TPH Capacity of Multi Fuel Travelling grate Boiler and 1 No X 195 TPH Capacity of Multi Fuel Travelling grate Boiler. Electro Static Precipitator (ESP) provided to control particulate matter from boiler stack. The effluent generated from the various sections of the plant is 1460 KLD, which will be treated in existing ETP of capacity 1600 KLD and used for dust suppression, irrigation and green belt development. The project cost of the proposed expansion is Rs. 350 Crores.

5. The project proposal has been considered by SEAC during the meeting held on 11<sup>th</sup>, 12<sup>th</sup> & 13<sup>th</sup> January 2016 and ToR was issued on 15<sup>th</sup> February 2016 for conducting Environment Impact Assessment (EIA) Study. The EIA has been conducted by EIA Consultant namely M/s. Environmental Health and Safety Consultants Pvt. Ltd, #13/2, 1st Main Road, Near Fire station, Industrial Town, Rajajinagar, Bengaluru -560 010 who are accredited from NABET vide NABET No. NABET/EIA/RA080/55 dated 3<sup>rd</sup> December 2015. The public consultation was held on 8<sup>th</sup> November 2016. The proponents have submitted the EIA report on 16<sup>th</sup> December 2016.

6. Based on the information submitted you and presentation made by Environmental consultant, M/s. Environmental Health And Safety Consultants Pvt. Ltd, Bengaluru -560 010. The State Level Expert Appraisal Committee (SEAC) examined the proposal in the meeting held on 28<sup>th</sup>, 29<sup>th</sup> & 30<sup>th</sup> December 2016 and has recommended for issue of Environmental Clearance.

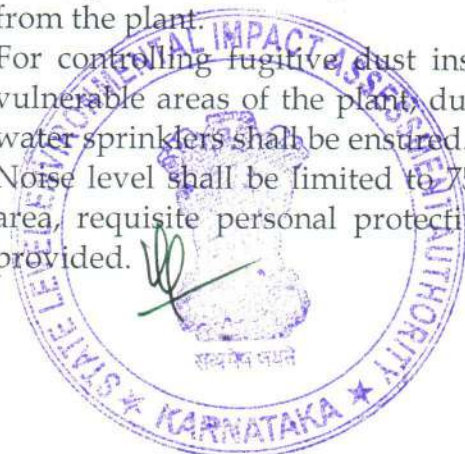
7. The SEIAA Karnataka has considered the project proposal in its meeting held on 18<sup>th</sup> March 2017 and after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations and the appraisal and recommendation of the SEAC and decided to accord Environmental Clearance in accordance with the provisions of Environmental Impact Assessment Notification-2006 and its subsequent amendments, subject to strict compliance of the following terms and conditions:-





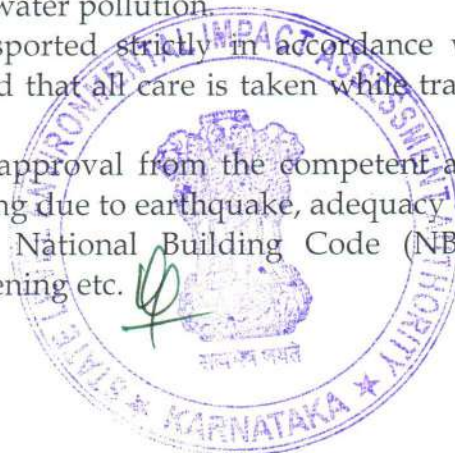
**A.SPECIFIC CONDITIONS:**

1. Suitable Air Pollution Monitoring System and stacks of appropriate height as per the CPCB guidelines shall be provided to control emissions from various sources and shall ensure emissions levels below the KSPCB prescribed standards. Separate electric meters should be provided to the Air pollution Monitoring System and a separate log book maintained for the daily meter readings and monthly report submitted to concerned Regional Officer, KSPCB & Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belagavi. The production process should be interlocked with the Air Pollution control systems.
2. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed.
3. ETP treated water shall not be let out of the industry's premises and should be used for farming/gardening within.
4. Boiler ash and Bottom ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided.
5. The process emissions from the boiler shall be dispersed through stack of adequate height as per CPCB/KSPCB standards. The gaseous emissions from the DG set shall be dispersed through stack height as per CPCB standards shall be provided. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
6. Ash generated should be mixed with press mud, ETP Sludge and composted and used or given to farmers as manure. 100% utilization of ash should be ensured from the date of operation of the plant. The project authorities shall adhere to the provision stipulated in the fly ash notification of September, 1999 and as amended in August, 2003 in regard to fly ash utilization.
7. Only bagasse/biomass should be used as fuel and shall not use more than 15 % of coal as auxiliary fuel as specified in MNRE. Not to use wood logs & no other fuels should be used.
8. No ground water shall be drawn at any stage without prior approval from the competent authority.
9. The Project proponent shall use Treated effluents for sugar cane seed farm/green belt development. There should be no wastewater discharge from the plant.
10. For controlling fugitive dust inside and outside the plant premises and vulnerable areas of the plant, dust extraction and suppression system and water sprinklers shall be ensured.
11. Noise level shall be limited to 75 dBA. For people working in high noise area, requisite personal protective equipment like earplugs etc. shall be provided.





12. Minimum 33 % green area should be developed in the project area. Planting should done with tree density of about 1111 trees per ha. i.e. at an espacement of 3mX3m and cover with suitable local perennial tree species.
13. The gaseous emissions (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, NH<sub>3</sub>, VOC) and particulate matter from Boilers, D.G. sets and other processes shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation under intimation to the Regional Officer, KSPCB & Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belagavi and shall not be restarted until the desired efficiency has been achieved.
14. The Project Authorities shall develop separate drain for storm and wastewater so that during rains, wastewater is not mixed with the storm water. The wastewater drains shall be provided with V-notch for monitoring the quantity of wastewater and the wastewater quantity shall be limited to the extent of permission of Karnataka State Pollution Control Board.
15. Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.
16. The company shall take adequate steps to avoid odour nuisance from disposal of press mud and ETP sludge. The transportation of these shall be in covered means.
17. The company shall develop covered storage areas for lime, sulphur, and Phosphoric acid to avoid mixing of the same with the rainwater for the existing sugarcane plant.
18. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.
19. The Project Authority shall take up construction works only after obtaining water allocation from the Water Resources Department.
20. Molasses shall be stored in Steel tanks or impervious pucca lagoons. The lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution.
21. The Molasses shall be transported strictly in accordance with the IRC guidelines. It shall be ensured that all care is taken while transporting the Molasses.
22. The proponent shall obtain approval from the competent authorities for structural safety of the building due to earthquake, adequacy of firefighting equipment etc. as per the National Building Code (NBC) including protection measures for lightning etc.

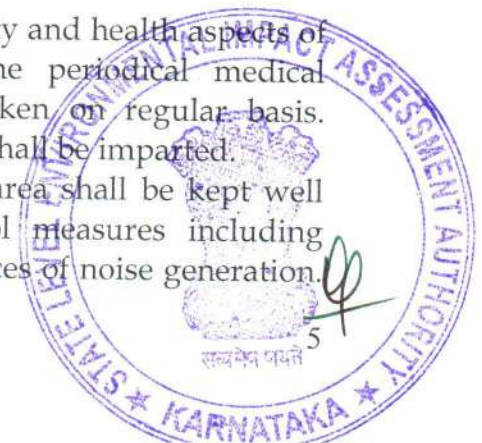




23. Usage of Personal Protection Equipment's by all employees/ workers shall be ensured.
24. The coal to be stored in coal stockyard on impervious layer in a covered shed and along the boundary garland canal to be provided leading to a exit pond/tank to arrest coal dust run-off and to allow settling of coal fines. The coal fines to be removed periodically.
25. No effluent shall be discharged outside the factory premises and "Zero" discharge concept shall be adopted.
26. At least 2.5 % of the total cost of the project should be earmarked towards future Corporate Social Responsibility and item wise details along with time bound action plan should be prepared and submitted to the Authority. Implementation of such programmes should be ensured accordingly in the time bound manner.
27. Concerns / suggestions expressed by the public during the public consultation process and the commitment made by the proponent in that regard shall be complied with in a time bound manner.
28. The project proponent shall implement all the commitments made in the Environment Management Plan.
29. The project proponent shall not allow Waste water outside the factory premises & have an agreement with farmers for taking treated waste water for their lands.
30. Online monitoring system for air quality and water quality to be implemented as per MoEF/CPCB norms.
31. Dyke wall to be provided for molasses tank to contain the molasses in unforeseen damage of the tank.
32. Health check up records of workers in the industry to be maintained

**B. GENERAL CONDITIONS:**

1. All the conditions stipulated in CFE/CFO issued by Karnataka State Pollution Control Board shall be strictly implemented.
2. The company shall comply with the recommendations made in the EIA/EMP/Risk assessment report. Risk assessment shall be included in the safety Manual.
3. Industry should operate with the required safety standards prescribed by the Director of Factories and Boilers Department.
4. The locations of ambient air quality monitoring stations shall be decided in consultation with the Karnataka State Pollution Control Board (KSPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
5. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
6. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.





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by M/s. Indian Cane Power Limited

- The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
7. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
  8. Regular monitoring of the air and water quality should be carried out in and around the plant and records be maintained. Half yearly reports shall be submitted to the SEIAA Karnataka, the APCCF, Regional Office of MoEF, Bangalore, the Department of Environment and Ecology, Government of Karnataka and the Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belagavi.
  9. Adequate numbers of ground water quality monitoring stations shall be set up around the green belt area. These monitoring stations will be provided with piezometers. The company shall monitor six monthly, the soil and ground water quality in the plant and green belt area to ensure that there shall not be ground water pollution and reports submitted to Ministry's Regional Office/ SPCB/CPCB, the Department of Environment and Ecology, Government of Karnataka, Bangalore and the Regional Director (Environment) Department of Ecology and Environment, Government of Karnataka, Belagavi.
  10. The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA and copies of the clearance letter are available with the KSPCB and may also be seen at Website of the Authority at <http://www.seiaa.kar.nic.in> or <http://www.seiaa.karnataka.gov.in> <http://environmentclearance.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 shall be forwarded to the MoEF Regional Office at Bangalore / KSPCB/ CPCB and the Department of Environment & Ecology, Bangalore.
  11. A separate environment and safety management cell with qualified staff shall be set up and shall be maintained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.
  12. Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to SEIAA, Karnataka / the APCCF, Regional Office of Ministry of Environment & Forests, Bangalore / CPCB/KSPCB, the Department of Environment and Ecology, Government of Karnataka and the Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belagavi.
  13. Karnataka SEIAA/the APCCF, Regional Office of the Ministry of Environment and Forests located at Bangalore/ the Department of Environment and Ecology, Government of Karnataka and the Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belagavi will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment





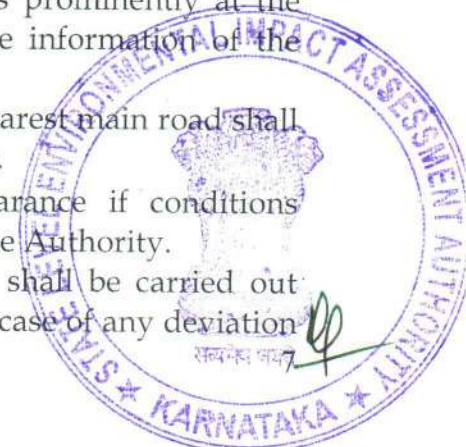
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- Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the APCCF, Regional Office of MOEF Bangalore/ SEIAA, Karnataka /Department of Ecology and Environment, Government of Karnataka and the Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belagavi for their use during monitoring.
14. Separate funds should be allocated for implementation of Environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the, SEIAA Karnataka, the APCCF, Regional Office of MoEF, Bangalore, the Department of Environment and Ecology, Government of Karnataka and the Regional Director, (Environment), Department of Ecology and Environment, Government of Karnataka, Belagavi.
  15. The Project Authorities should inform the SEIAA, Karnataka/ the Department of Environment and Ecology, Government of Karnataka/ the Regional Director, (Environment), Department of Ecology and Environment, Government of Karnataka, Belagavi / the APCCF, Regional Office of the Ministry of Environment and Forests regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.
  16. The Project Authorities shall provide proper rain water harvesting and ground water recharge facilities and report be submitted.
  17. Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for lighting and heating should be provided. Details in this regard should be submitted to the SEIAA.
  18. Full cooperation should be extended to the Scientists/ Officers from the Ministry/ the APCCF, Regional Office of the MoEF at Bangalore/ the CPCB / the KSPCB/ the Department of Environment and Ecology, Government of Karnataka/ Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Belagavi who would be monitoring the compliance of conditions.
  19. A master plan for social commitment giving details of proposed works /activities and expenditure year wise to be prepared and submitted to SEIAA and shall be implemented strictly.
  20. The Project Authority should display the conditions prominently at the entrance of the project on a big panel board for the information of the public.
  21. The infrastructure of transport roads linking to the nearest main road shall be improved and maintained by the Project Proponent.
  22. The SEIAA reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Authority.
  23. No further expansion or modifications in the plant shall be carried out without prior approval from the SEIAA Karnataka. In case of any deviation





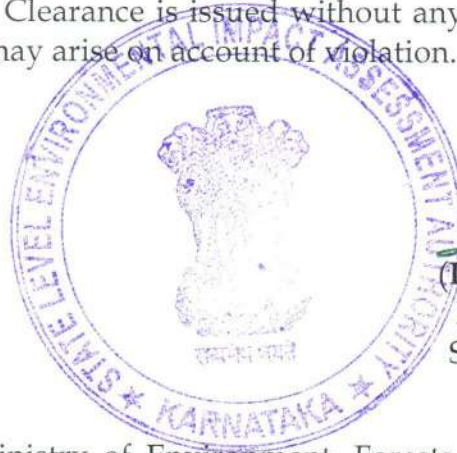
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- or alteration in the project proposed from those submitted to this SEIAA for clearance, a fresh reference should be made to the SEIAA to assess the adequacy of the conditions imposed and to add additional conditions for environmental protection required, if any.
24. The above stipulations would be enforced among others under the Water (prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and its amendments, the Public Liability Insurance Act, 1991 and its amendments, the Environment Impact Assessment Notification of January, 2006 and their subsequent manufacture, storage and Import of Hazardous Chemicals Rules, 1989 amendments.
  25. The issue of Environment Clearance doesn't confer any right to the Project Authority to operate / run the project without obtaining statutory clearances / sanctions from all other concerned Authorities.
  26. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental (Protection) Act, 1986.
  27. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
  28. This Environmental Clearance is issued without any prejudice to the legal cases if any, which may arise on account of violation.



Yours faithfully,

  
(RAMACHANDRA) 26/4/17  
Member Secretary,  
SEIAA - Karnataka.

Copy to:

- 1) The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi - 110 003.
- 2) The Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, No.1, Charanti Math Building, Shivalaya Road, Sadashiva Nagar, Belagavi.
- 3) The Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 4) The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17<sup>th</sup> Main Road, Koramangala II Block, Bangalore - 560 034.
- 5) Guard File.