

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA), BIHAR
Beltron Bhawan, 2nd Floor, Shastri Nagar, Bailey Road,
Patna – 800023

Ref. No. 59

Patna, date : 16/4/15

From,

DR. R.C. SINHA
Chairman
SEIAA, Bihar

To,

Sri Deepak Yadav,
Chairman & Managing Director,
M/s Tirupati Sugars Ltd.,
Tahsil- Bagaha, Distt. West Champaran, Bihar

Sub: **ENVIRONMENT CLEARANCE FOR THE PROPOSED MODERNIZATION & EXPANSION OF
EXISTING SUGAR MILL FROM 2500 TCD TO 7000 TCD**

Sir,

With reference to your letter No. AK/PAT/904 dated 4/12/2015 for environment clearance as per EIA Notification 2006, of proposed expansion of Sugar Mill within existing premises, the proposal has been examined by SEAC and processed in accordance with the EIA Notification, 2006 and its amendment thereof.

All sugar industries (> 5000 TCD cane crushing) are listed at S.N. 5(j) under category 'B' and appraised at state level. However, due to applicability of general condition (i.e. Balmiki Tiger reserve within 10 Km), project proposal was treated as category 'A' project. The proposal was considered by the 02nd reconstituted Expert Appraisal Committee (EAC), Ministry of Environment & Forests, Govt. of India, in its meeting held on 29/31st Oct.'2012 to determine the Terms of Reference (TOR) for preparation of EIA/EMP Report for obtaining Environmental Clearance in accordance with the provisions of the EIA Notification 2006. Accordingly, EAC issued TOR vide letter No. J/1011/118/2011-1A 11A(I) dated 20/10/2014, for preparation of EIA/EMP Report. As per EIA Notification 2006, Draft EIA/EMP Report has been prepared & submitted to Bihar State Pollution Control Board for Public Hearing / Public Consultations. Public Hearing for the proposed expansion project was conducted on 15th Nov. 2013 at NVS Mills High School, Naraipur, Bagaha, Dist. West Champaran. It is noted that the salient features of the project for which Environmental clearance has been accorded by SEIAA is as follows :

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Name of the Project	Tirupati Sugars Ltd.	
Type of the Project	Sugar Industry , Sl. No. 5(j) as per EIA Notification 2006	
Category of the Project	'B'	
Project Location	Within existing premises of Tirupati Sugars Ltd. At Bagaha, Dist.: West Champaran, Bihar	
Existing Facilities	All the existing infrastructural facilities will be utilized for the proposed expansion project. No new additional buildings are required for the proposed expansion project. Expansion will be done by way of installation of new equipments and up-gradation of existing machineries and new turbine will be installed for cogeneration plant.	
Total no. of trees to be felled	NIL	
Geo-coordinates of the Site	Latitude	27°07'39.61"N - 27°07'39.61"N
	Longitude	84°04'02.12"E - 84°04'44.33"E
Nearest Railway Station	Bagaha : 0.5 Km.,	
Nearest River	River Gandak – 2.5 Km.	
Total Land Area	125 Acres	
Area required for proposed expansion	30 Acres	
Total Green Area	39.0Acres	
Water Requirement	Net Water Requirement : 886.93 KLD Fresh Water Requirement : 12 KLD	
Source of water	Primary source: Existing Bore wells within premises Secondary source: Water recovered from ETP	
Waste water generated	Approx. 30 KLD waste water will be generated	
Waste water treatment	All waste water generated will be treated in proposed 700 KLD ETP within premises.	
Rain water harvesting	Rain water from the roof of the building to be collected & discharged into the surface rain water channels network at the ground level, filtered & finally discharged into ground water recharging wells. Rain water storage not proposed.	
Solid waste generation	- Press Mud : 280 T / Day - Molasses : 270 T / Day - Bagasse : 2100 T / Day	

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	- Boiler Ash : 35.83 T / Day
Emissions	(i) Exhaust emission from Boiler Stacks & DG Set Exhaust
Noise	50 – 60 dB(A) within premises
Energy requirement	8 MW
Energy source	Primary source: Own Co-generation Plant within premises Alternative source: DG set – 360 KVA
Environmental Management Plan	Budget for Environmental Monitoring Program: Rs. 67.0 Lacs / annum
Total cost of the Expansion project	Approx 13.12 Crores

PART A – GENERAL CONDITIONS

I. Pre-Construction & Construction Phase

No new construction activity will be carried out for proposed expansion project. Only existing machineries will be upgraded & one new turbine will be installed within existing plant premises for proposed expansion.

II. Post Construction / Operation Phase

- (i) No further expansion / modification in the plant shall be carried out without prior permission of SEIAA, Bihar/MoEF, Govt. of India.
- (ii) Three Ambient Air Quality Monitoring Stations shall be set up. One in the down wind direction and two where maximum ground level concentration of PM10, SO₂, NO_x, are anticipated in consultation with the State Pollution Control Board.
- (iii) Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the State Pollution Control Board. Monthly monitoring should be carried out for relevant parameters.
- (iv) The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. The Test Reports will be submitted every month. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including

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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 (day time) and 70 dBA (night time).

- (vi) The project authorities shall provide requisite funds for both recurring and non-recurring expenditure to implement the conditions stipulated by SEIAA, Bihar with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- (vii) A copy of the 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 who suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
- (viii) 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 State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests 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.

III. Entire Life of the Project

- (i) The project proponent should implement Environmental Monitoring Programme as per details submitted in EIA/EMP Reports as per commitment during public hearing.
- (ii) No expansion/modification activity should be carried out before obtaining prior Environmental Clearance as per EIA Notification 2006.
- (iii) Regular monitoring of Environmental Components should be done & report should be submitted to Bihar State Pollution Control Board, Patna on monthly basis.
- (iv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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


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of the company along with the status of compliance of environmental clearance conditions and shall also be sent to SEIAA/SEAC, Bihar.

PART B - SPECIFIC CONDITIONS

I. Pre-Construction & Construction Phase

No new construction activity will be carried out for proposed expansion project. Only existing machineries will be upgraded & one new turbine will be installed within existing plant premises for proposed expansion.

II. Post Construction / Operation Phase

- (i) The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- (ii) The particulate emissions from the existing bagasse fired boiler shall be controlled by way of APCS and emissions shall be dispersed through stack height as per the CPCB guidelines and conform to the prescribed standards. The emissions from the DG sets shall be dispersed through stack of height as per CPCB standards.
- (iii) The Company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the State Pollution Control Board. The levels of PM10, SO₂, NO_x (ambient levels), emissions from the stacks and pH, TDS, BOD, COD, Chloride, suspended solids and sulphates in the treated effluent shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.
- (iv) Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area and bio-compost yard shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to the RO, MOEF at Bhubaneswar / CPCB/SPCB and this Ministry.

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- (v) Green belt in an area of 23 acres of the plant area shall be maintained to mitigate the effects of fugitive emissions all around the plant and compost yard as per the CPCB guidelines in consultation with the local DFO.
- (vi) Company shall adopt rainwater harvesting measures to recharge the ground water.
- (vii) Fire Fighting System shall be as per the TAC Norms and cover all areas where alcohol is produced, handled and stored.
- (viii) Provision of foam system for fire-fighting to control fire from the alcohol storage tank.
- (ix) Risk Assessment shall be carried to assess the fire and explosion risk due to storage of alcohol and report submitted to the Ministry within six months.

III. Entire Life of the Project

- (i) The company shall comply with the recommendations made in the EIA/EMP report and during public hearing.
- (ii) 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 medical records of each employee shall be maintained separately.
- (iii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C 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 State Pollution Control Board.
- (iv) Company should implement ZERO DISCHARGE as per declaration submitted by 31st Mar.'2015.
- (v) No effluent should be discharged to Manusmara river.
- (vi) Characteristics of Treated Effluent & Emission from Stacks should meet the standards as prescribed in Environment (Protection) Rules'1986 and amendments thereof.
- (vii) The funds earmarked for the environmental protection measures shall not be diverted for other purposes.
- (viii) In case of any change(s) in the scope of the project, the project shall require a fresh appraisal by the SEAC/SEIAA.
- (ix) The SEAC/SEIAA Bihar will have the right to amend the above conditions and add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act,

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- 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.
- (x) For Extraction of ground water prior clearance shall be obtained from the Central Ground Water Board or any other appropriate Authority.
 - (xi) Any appeal against this Environmental Clearance shall lie with the National Green Tribunal (NGT), if preferred within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

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R.C. Sinha

(R.C. Sinha)

Chairman

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