

Sugar EC  
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 Sugar EC

**Government of Maharashtra**

File No. SEAC-351CR.96/TC.2  
 Environment department  
 Room No. 217, 2<sup>nd</sup> floor,  
 Mantralaya Annex, Mumbai-400 032.  
 Dated: 24<sup>th</sup> May, 2012

To,  
 M/s. Karmayogi Shankarraoji Patil Sahakari Sakhar Karkhana Limited,  
 Mahatma Phule Nagar, village Bijwadi Tal-Indapur, Pune.

Sub: proposed expansion of sugar unit from 5,000 TCD to 8,000 TCD along with cogeneration unit of 18.585 MW at Mahatma Phule Nagar, village Bijwadi Tal-Indapur, Dist-Pune by M/s. Karmayogi Shankarraoji Patil Sahakari Sakhar Karkhana Limited - Environmental Clearance Regarding.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee, Maharashtra in its 44<sup>th</sup> & 53<sup>rd</sup> meetings and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 46<sup>th</sup> Meeting held on 16<sup>th</sup>/17<sup>th</sup> May, 2012.

2. It is noted that the proposal is for grant of Environmental Clearance for proposed expansion of sugar unit from 5,000 TCD to 8,000 TCD along with cogeneration unit of 18.585 MW at Mahatma Phule Nagar, village Bijwadi Tal-Indapur, Dist-Pune by M/s. Karmayogi Shankarraoji Patil Sahakari Sakhar Karkhana Limited SEAC considered the project under screening categories 5(j) and 1(d), B1 of EIA Notification 2006.

Project information from submitted & considered documents is summarized as below-

Name of the Project	Expansion of sugar unit from 5,000 TCD to 8,000 TCD along with cogeneration unit of 18.585 MW.			
Category	5(j) and 1(d), B1			
Project Proponent	M/s. Karmayogi Shankarraoji Patil Sahakari Sakhar Karkhana Limited			
Location of the project	Mahatma Phule Nagar, village Bijwadi Tal-Indapur			
Type of Project	Sugar unit along with cogeneration plant.			
Total Plot Area	18 Acres built up area, 6 acres provided for green belt development			
Estimated cost of the project	Rs. 12103.48 lakhs			
Products	Name of Products, Byproducts	Existing	Proposed activity (new/modernization/expansion)	Total
	A. Main Products	White Sugar: 467 MT/Day	White Sugar: 920 MT/Day Power: (18.585	White Sugar: 920 MT/Day 18.585 MW

*[Handwritten Signature]*

				MW electricity)	Electricity
		B. By-Products	Molasses : 163 MT/Day Bagasse : 1300 MT/Day Press mud: 173MT / Day	Molasses : 320 MT/Day Bagasse : 2240 MT/Day Press mud: 320 MT / Day	Molasses : 320MT/Day  Bagasse : 2240MT/Day  Press mud 320MT/Day
Raw material	:	Sugar Cane: 8,000 MT/Day Lime : 9.8MT/Day Sulfur: 4.64 MT/Day Bagasse (Fuel): 106,875 TPH ( 76,950TPM)			
Water Requirement	:	Total Water Requirement: 2835 m <sup>3</sup> /day Recycled water: 1975 m <sup>3</sup> /day			
Power Generation	:	Total Power Requirement (MW): 10.925( Sugar Factory, T.P. Office, Colony, Workshop, Other)			
Solid waste management	:	Raw water Treatment Plant: 3.0 TPM; Land filling in own gardening area ETP: 85 TPM; Utilized for composting along with press mud Process Ash: 1014 TPM; Utilized for composting along with press mud			
Effluent Generation	:	Total Effluent generation: 836 m <sup>3</sup> /day. Effluent treated in ETP of 1,700 m <sup>3</sup> /day : will be used for irrigation purpose.			
Pollution control measures	:	Aspect	Existing	Proposed	
		Air	Mechanical Dust collector	Wet scrubber	
		Water	Effluent Treatment Plant	Existing ETP at sugar factory is of 1700m <sup>3</sup> which is adequate to treat the additional effluent from cogeneration unit.	
		Noise	Regular maintenance of machinery and greenbelt	Boiler and power house in closed area Greenbelt development for proposed unit	
		Solid Waste	Bio-compost unit	Adequate for disposal of additional ash due to cogeneration unit	
Green belt area	:	Green belt area ( in Sq. m)		24280Sq. m	
		Existing nos. of trees		10,000	
		Proposed nos. of trees with plant species		5,000	
		Number trees being cut/replanted or compensated		No Proposed project is located within existing sugar factory unit on flat, open land	

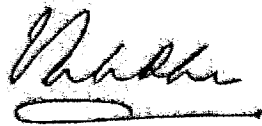
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Environmental Management Plan	Capital cost: 4.50 Crores Recurring cost: Rs. 49.50 Lakhs
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3. The proposal has been considered by NEIAA in its 46<sup>th</sup> meetings & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:
- (i) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
  - (ii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
  - (iii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
  - (iv) Regular monitoring of the air quality, including SPM & SO<sub>2</sub> levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
  - (v) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
  - (vi) Proper House keeping programmes shall be implemented.
  - (vii) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
  - (viii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (if applicable)
  - (ix) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
  - (x) Arrangement shall be made that effluent and storm water does not get mixed.
  - (xi) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
  - (xii) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
  - (xiii) The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
  - (xiv) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
  - (xv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
  - (xvi) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
  - (xvii) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
  - (xviii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste



- (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xix) The company shall undertake following Waste Minimization Measures:
- Metering of quantities of active ingredients to minimize waste.
  - Reuse of by-products from the process as raw materials or as raw material substitutes in other process.
  - Maximizing Recoveries.
  - Use of automated material transfer system to minimize spillage.
  - Use of "Closed Feed" system into batch reactors.
- (xx) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes/improvements required, if any, in the on-site management plan shall be ensured.
- (xxi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxii) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xxiii) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxiv) Separate funds shall be allocated for implementation of environmental protection measures/EIMP 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 reported to the MPCB & this department.
- (xxv) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://ec.maharashtra.gov.in>
- (xxvi) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1<sup>st</sup> June & 1<sup>st</sup> December of each calendar year.
- (xxvii) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation 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 website of the Company by the proponent.
- (xxviii) The proponent shall upload the status of compliance of the stipulated EC 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 MoEF, the respective Zonal Offices of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (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.
- (xxix) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC 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.
- (xxx) The environmental statement for each financial year ending 31<sup>st</sup> 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.



(xxx) The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.

4. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
5. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years.
6. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
7. 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 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
8. Any appeal against this environmental clearance shall lie with the National Green Tribunal, Van Vigyan Bhawan, Sec- 5, R.K. Puram, New Delhi - 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



(Valsa R Nair Singh)  
Secretary, Environment  
Department & MS, SEIAA

**Copy to:**

1. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEIAA, 'Jigru' Kottaram Road, Calicut- 673 006 Kerala.
2. Shri. Dr. S. Devotia, Chairman, SEAC, T2/302 Sky City, Vanagaram -Ambattur Road, Chennai - 600 095
3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
4. The CCP, Regional Office, Ministry of Environment and Forest (Regional Office - Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, P-5, Ravi-Shankar Nagar, Bhopal-462 016). (MP).
5. Regional Office, MPCB, Pune.
6. Collector, Pune.