

Government of Maharashtra

No.: SEAC-2009/CR.24/T.C.2
Environment department,
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai 400 032
Date: 7th October, 2010

To,
M/s. Natural Sugar and Allied Industries Pvt. Ltd.
Ranjani, Tq. Kallam,
Dist. Osmanabad - 413528
Maharashtra.

Subject: Expansion of sugar unit of capacity from 2500 TCD to 5000 TCD & cogeneration unit of capacity from 9 MW to 22 MW at Natural Sugar and Allied Industries, Kallam, Osmanabad.- Environmental clearance regarding.

Sir,

This has reference to your communication dated 16th June, 2009 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 17th & 30th 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 26th meeting held on 26th August, 2010. Authority noted your clarification dated 13th September, 2010 that the bagasse will be used as fuel for boiler. No other fuel including coal will be used for captive consumption.

2. It is noted that the proposal is for grant of Environmental Clearance for Expansion of sugar unit of capacity from 2500 TCD to 5000 TCD & cogeneration unit of capacity from 9 MW to 22 MW at Natural sugar and allied industries, Kallam, Osmanabad. The project considered by SEAC under Category 'B' of EIA Notification 2006, screening category 5 (j) for expansion of sugar unit of capacity from 2500 TCD to 5000 TCD and screening category 1 (d) for cogeneration unit of capacity from 9 MW to 22 MW. Project proponent has submitted TOR.

Project information from documents submitted by you & considered by SEAC & SEIAA is summarized as below-

Name of the Project	:	Environmental clearance for expansion of sugar unit of capacity from 2500 TCD to 5000 TCD & cogeneration unit of capacity from 9 MW to 22 MW
Project	:	Project involves two parts: A. Expansion of sugar unit of capacity from 2500 TCD to 5000 TCD, B. expansion of cogeneration unit of capacity from 9 MW to 22 MW
Project Proponent	:	M/s. Natural sugar and Allied Industries Pvt. Ltd.
Location of the project	:	Sainnagar, Ranjani, Tal- Kallam, Dist- Osmanabad Latitude - 18 0 32' 10.27" Longitude 76 14' 32.69"
Total plot area	:	80 ha

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EC
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Built up area : 20 ha

Estimated cost of the project : ₹ 4078.25 lakhs

Production Capacity:

Name of Products, Byproducts and Intermediate Products	Existing	Propose activity (new/modernization/expansion)	Total
A. Main Products Sugar	40000 m.t./year	40000 m.t./ year	80000 m.t./year
Electricity	9 MW/hour	13MW/hour	22 MW/hour
B. By- Products Molasses	3000 M.T./month	3000 M.T./month	6000 M.T./month
Bagasse	22500 M.T. / Month	22500 M.T. /Month	45000 M.T./month
Pressmud	3000 M.T./month	3000 M.T./month	6000 M.T./month
C. intermediate Products	----	----	----

Raw material requirement:

- Bagasse: 2,64,936 MT/annum

Bagasse Balance: Crushing capacity: 5000 TCD

Details of Boilers:

1. Boiler 1 : 40 TPH, 45 Kg/cm², 450^oc
2. Boiler 2 : 30 TPH, 45Kg/cm², 450^oc
3. Boiler3 : 70 TPH, 75 Kg/cm², 510^oc

Total steam generation capacity: 140 TPH

Power Turbine details:

Total power generation capacity during season: 18900 KW

Total power generation capacity during off season: 6000 KW X 1

Power Balance:

1. Available bagasse for cogeneration for off season : 34720 MT
2. Steam production during off season : 74648 MT
3. Captive consumption during off season : 600 kwh
4. Net power export during season : 5400 KWH
5. Power requirement during season : 5060 KWH
6. Power for Captive consumption : 1890 KWH
7. Power for distillery : 500 KWH
8. Power available for export : 11450 KWH
9. Net power export during season : 1832000 KWH

Raw material storage:

Bagasse yard for storage of bagasse and covered sugar for storage of sugar.

Water Requirement: 1200 m³/day; Source: MIDC & 2 boerwell

Wastewater generated: 300 m³/day; shall be treated in a Effluent Treatment Plant (ETP)

- Treated effluent will be used for irrigation.
- Capacity of ETP: 500 m³/day
- Quantity of recycled water: 500 (m³/day)
- Domestic Effluent: 55.50 m³/day for irrigation
- Capacity of STP: 60 cum/day

Solid Waste Management:

Fly ash: 23 MT/day

Used oil: 0.2 MT

ETP Sludge: 10 MT

Disposal:

- Ash generated will be sold to brick manufacturers and farmers as soil conditioner or used as organic manure. Fly ash utilization as per Fly ash Notification no. SO763(E) dated 14.09.1999 (amended) and as per direction of MPCB.
- ETP Sludge: used as landfill
- Spent Oil – burnt in boiler
- Bagasse – use for boiler
- Pressmud – use for composting
- molasses – Raw material for Distillery

Air pollution control measures:

- Wet Scrubber shall be provided.
- Adequate stack height would be provided to boiler, DG Set as Air pollution Equipment.
 1. Stack height attached to boiler 1 : 65 m and chimney dia -2.6 m
 2. Stack height attached to Boiler 2 : 60 m and chimney dia -2.0 m
 3. Stack height attached to Boiler 3 : 60 m and chimney dia -2.0 m
 4. Stack height attached to DG sets 1 of capacity 500 KVA: 6 m(above the height of building) & chimney dia – 0.3 m
 5. Stack height attached to DG sets 2 of capacity 280 KVA: 6 m(above the height of building) & chimney dia – 0.3 m
 6. Stack height attached to DG sets 3 of capacity 250 KVA: 6 m(above the height of building) & chimney dia – 0.3 m
- Gaussian Dispersion Model will be used for predicting ambient air quality.

Noise pollution control measure:

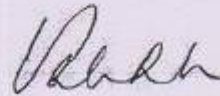
- Ear Plugs to workers.
- Regular medical check-up camps will be organized.
- Trees act as a Noise Buffer

Green Belt Development:

- Area – 271972 Sq m, Existing nos. of Trees: 12000, Proposed nos. of Trees will be planted nos: 3000
- Factory has planted 2888 No. of mango trees in 3 acres. 2800 sq.m lawn is developed.

Rain Water Harvesting (RWH):

- Storage tank capacity – 1000 cum
- Three recharge Pits for three bore wall



Energy:

Total Power Requirement (MW): 150 MW; Source of Power – Own
Present (in existing) 75 MW/day, Proposed: 75 MW/day
DG Sets: 500 KVA, 280 KVA & 250 KVA

EMP:

Sr. No.	Recurring Cost per annum(lakhs)	Capital Cost (lakhs)
Air Pollution Control	5	90
Water Pollution Control	4	50
Noise Pollution Control	0.5	3
Environment Monitoring & Management	5	5
Reclamation borrow/mined area	-	-
Occupational Health	5	5
Green Belt	5	5
Tree plantation	-	3
Solid waste management	-	-
Others (Pl. Specify)	24.5	15.8

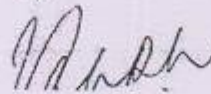
Project proponent agreed for expenditure of ₹ 5 lakhs on Occupational Health & Medical check up and ₹ 7 lakhs on Community Development.

Details of Pollution Control Systems:

	Existing	Proposed to be installed
Air	Wet scrubber	ESP
Water	ETP	Modification in existing ETP
Noise	Heavy machineries are made sound proof & air plugs are provided to workers.	
Solid Waste	Composting	Composting

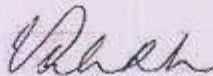
3. The proposal has been considered by SEIAA in its 26th meetings & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:-

- (i) "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site. Pollution control measures mentioned in Para 2 subject to direction of MPCB as and when issued.
- (ii) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
- (iii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (iv) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (v) Regular monitoring of the air quality, including SPM & SO₂ 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



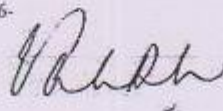
decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.

- (vi) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (vii) Arrangement shall be made that waste water and storm water do not get mixed.
- (viii) 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.
- (ix) 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.
- (x) 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 confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- (xi) 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.
- (xii) 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.
- (xiii) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xiv) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xv) 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.
- (xvi) The company shall undertake following Waste Minimization Measures :
 - a. Metering of quantities of active ingredients to minimize waste.
 - b. Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
 - c. Maximizing Recoveries.
 - d. Use of automated material transfer system to minimize spillage.
 - e. Use of "Closed Feed" system into batch reactors.
- (xvii) 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.
- (xviii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xix) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xx) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxi) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-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
- (xxii) 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://envis.maharashtra.gov.in>

- (xxiii) 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 1st June & 1st December of each calendar year.
 - (xxiv) 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.
 - (xxv) 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 Office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM, SO₂, NOx (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.
 - (xxvi) 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.
 - (xxvii) 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
 - (xxviii) 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 to start of production operations by the power plant.
 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 Environmental Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environmental Appellate Act, 1997.


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

Copy to:

1. Shri. Ashok Basak, IAS (Retd.), Chairman, SEIAA, 502, Charleville, 'A' Road, Churchgate, Mumbai-400 020, Maharashtra.
2. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEAC, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerala.
3. The Secretary, Energy department, Govt. of Maharashtra, Mantralaya, Mumbai - 400032, Maharashtra
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No-3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP)
6. Regional Office, MPCB, Aurangabad.
7. Collector, Osmanabad.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
9. Director(TC-1), Dy. Secretary(TC-2), Scientist-1, Environment department
10. Select file (TC-3).