

Government of Maharashtra

SEAC-2013/C.R.538/TC-II
Environment department
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai- 400 032.
Dated: 11th June, 2014

To,
M/s. Lokmangal Mauli Industries Ltd.
Village -Khed, Tal Lohara,
Distt. Osmanabad

Subject: Environment clearance for proposed sugar production of 6000 TCD at Khed, Tal Lohara, Distt. Osmanabad by M/s. Lokmangal Mauli Industries Ltd.

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-I, Maharashtra in its 73rd meeting 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 70th Meeting.

2. It is noted that the proposal is for grant of Environment Clearance for proposed sugar production of 6000 TCD at Khed, Tal Lohara, Dist. Osmanabad. SEAC considered the project under screening category 5(j) B1 of EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of the Project	Proposed Sugar production of 6000TCD.
Project Proponent	M/s. Lokmangal Mauli Industries Ltd., Village- khed, Tal-Lohara, District- Osmanabad, Maharashtra
Consultant	Mantras Green Resource Ltd.
Category as per EIA Notification	5(j)
Total plot Area:	123.5 acres
Built up Area :	12.35 acres
Notified Industrial	No
EIA Submitted	Consolidated EIA for 6000 TCD sugar mill and 30 MW cogen submitted to MoEF
Estimated cost of the project	Rs 240 Cr

Location details of the project :	1. Latitude - 17 ⁰ 59'23"N 2. Longitude- 76 ⁰ 22'23"E 3. Elevation above Mean Sea Level - 682 M 4. Nature of terrain (hilly, valley, plains, Coastal plains etc.) - Plains 5. Nature of Soil (sandy, clayey, sandy loam etc.) – clayey Black soil																			
Water Conservation	I. Rain Water Harvesting (RWH): PP plans to provide unlined day tank for three days storage of about 5000 m ³ capacity and use it after filtration to reduce fresh water intake and allow water to percolate in ground. II. Water supply- Total water required: Source: Lower Terna Dam, commitment letter to be obtained from Central/State Ground water authorities) Quantity of recycled water: (m ³ /day) Total Water Requirement: 1300 m ³ /day (i) Process : 700 m ³ /day (ii) Cooling water : 333 m ³ /day (iii) DM Water 162 m ³ /day (iv) Dust Suppression: 100 m ³ /day (Blow down water recycled) (v) Domestic 100 m ³ /day (vi) Green belt : 150 m ³ /day																			
Sewage and Waste Water	I. Storm water drainage: II. Total Effluent generation : 449 m ³ /day • Domestic Effluent: 100 m ³ /day Capacity of STP: To be treated in ETP • Trade Effluent: 660 m ³ /day Treated in own ETP. • Capacity of ETP: 1000 m ³ /day • Physico- chemical analysis of treated water to be used in project: • Point of final discharge (Quantity discharged in m ³ /day) III. <table border="1" data-bbox="651 1521 1193 1824"> <thead> <tr> <th>Parameters(p H, BOD, COD, etc)</th> <th>Untreated</th> <th>Treated</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>6-8</td> <td>In between 5.5 -9</td> </tr> <tr> <td>BOD</td> <td>1500</td> <td>Below 100</td> </tr> <tr> <td>COD</td> <td>2500</td> <td>Below 100</td> </tr> <tr> <td>TSS</td> <td>600</td> <td>Below 100</td> </tr> </tbody> </table>					Parameters(p H, BOD, COD, etc)	Untreated	Treated	pH	6-8	In between 5.5 -9	BOD	1500	Below 100	COD	2500	Below 100	TSS	600	Below 100
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Solid waste Management:	Sr. No	Source	QTY (TPM)	From (sludge/dry slurry e.t.c.)	companion															

	1	Raw water treatment plant	--	--	--																
	2	ETP	6.0	--	--																
	3	Process bagasse	45000	--	--																
		Process Pressmud	7200																		
	4	Spent catalyst	Nil	--	--																
	5	Oily sludge	3.0																		
Green Belt Development	Green belt area : 33 % Area used for green belt development – 40 acre. Total no of trees planted 25000.																				
Details of Fuel used: Source of Fuel : Mode of Transportation of fuel to site	<table border="1"> <thead> <tr> <th>Fuel consumption</th> <th>Coal</th> <th>Bagasse</th> <th>HSD</th> </tr> </thead> <tbody> <tr> <td>Fuel consumption</td> <td>Nil</td> <td>1472 MTD</td> <td>500 Kg/hr.</td> </tr> <tr> <td>Calorific value Kcal/kg</td> <td>N.A.</td> <td>2270</td> <td>10000</td> </tr> <tr> <td>Ash content %</td> <td>N.A.</td> <td>1.5%</td> <td>--</td> </tr> </tbody> </table>					Fuel consumption	Coal	Bagasse	HSD	Fuel consumption	Nil	1472 MTD	500 Kg/hr.	Calorific value Kcal/kg	N.A.	2270	10000	Ash content %	N.A.	1.5%	--
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Energy	Total Power Requirement (MW); - 5650 KW in season -300 KW off season Source of Power – own power plant Present (in existing) – in existing Proposed : 30 MW DC Supt. 2000 KVA																				
Environmental Management plan Budgetary Allocation :																					
	Sr.No	Item	Recurring Cost Per Annum Rs lacs	Capital Cost Rs lacs																	
	1	Air Pollution Control	60	1000																	
	2	Water Pollution Control	70	900																	
	3	Noise Pollution Control	10	100																	
	4	Environmental Monitoring And Management	30	100																	
	5	Reclamation Borrow/Mined Area	--	--																	
	6	Occupational Health	20	100																	
	7	Green Belt	20	200																	

Public Hearing details:	<p>A. Date of Advertisement: 23/09/2012</p> <p>B. Newspapers in which the advertisement appeared (With copies)- daily Lokmat & Lokmat times.</p> <p>C. Date of Hearing : 26 /10 / 2012</p> <p>D. Panel Present: Shri K M Nagargoje Collector and DM (Osmanabad) Shri P M Joshi Regional Officer MPCB Aurangabad Shri Nitin Shinde Sub Regional officer MPCB Latur</p>
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Raw materials:

Physical and chemical nature of raw material	Quantity (T/M) full production	Source of materials	Means of transportation (Source to storage site)
Solid	1,80,000	Nearest farms	Through bulleccarts or trucks
Solid	300	Purchase from	By truck
Liquid	4.0	Purchase from	By truck
Semisolid	3.25	Purchase from	By truck
Solid	233 kg/month	Purchase from	By truck
Solid	330 kg/month	Purchase from	By truck
Solid	105 kg/month	Purchase from	By truck
Liquid	1905 kg/month	Purchase from	By truck
Solid	36870	From own factory	By in built in conveyors

Product Profile (Tones per month) :

Products	Existing	Proposed activity	Total
A. Main Products	Nil	White crystalline sugar – 21600 MT/month	White crystalline sugar – 21600 MT/month
B. By-Products	Nil	Bagasse – 54000 MT/month Molasses – 7200 MT/month Press mud – 7200 MT/Month	Bagasse – 54000 MT/month Molasses – 7200 MT/Month Press mud – 7200 MT/Month
C. Intermediate Products	Nil	Nil	Nil

Storage of chemicals (inflammable/explosive/hazardous/toxic substances) :

S r. No	Name	Capacity	Physical and Chemical Compos	Consumption (MT/M)	Maximum Quantity of storage at any	Source of Supply	Means of transportation
1	Phosphoric acid	0.266 kg/100 quintal cane	Liquid	4.8	10 MT	Purchase from market	By truck
2	Caustic soda	0.220 Kg/100 QTL Cane.	Solid	396 kg/month	20 KL	Purchase from market	By tanker
3	Sulfur	5 kg/100 quintal cane	Solid	90 MT/Month	50 MT	Purchase from market	By tanker
4	Sulfuric	--	Liquid	---	20 KL	Purchase	By truck

	acid					e from market	
5	Hydrochloric acid	0.127 Kg/100 QTL Cane	Liquid	---	20 KL	Purchase from market	By tanker

Details of Pollution Control Systems:

Item	Existing	Proposed to be installed
Air	Nil	Electrostatic precipitator will be installed to control air pollution to limit particulate emission to within 150 mg/nm ³ . Emission of SO ₂ will be restricted 171 kg/hr if D G set is run at full load 85 m high chimney proposed
Water	Nil	1000 m ³ /day capacity ETP is proposed complete bio digester, oil and grease separator, equalization tank, primary treatment, secondary treatment, clarification followed by filtration
Noise	Nil	Acoustic enclosure on D G set will be provided to limit noise.
Solid Waste	Nil	6.0 MT/month ETP sludge is used as manure own agricultural area.

Atmospheric Emissions:

Flue gas characteristics (SPM, SO₂, NO_x, CO) :

Sr. No.	Pollutant	Source of Emission	Emission rate (kg/hr)	Concentration in flue gas (g/m ³)
1	SPM	Boiler	620	1.6
2	SO ₂	Boiler	Negligible	Negligible
3	NO _x	Boiler/	Negligible	Negligible
4	CO	Boiler/	Negligible	Negligible
1	SPM	DG set	Negligible	Negligible
2	SO ₂	DG set	171 kg/hr if run at full	171 kg/hr if run at full
3	NO _x	DG set	Negligible	Negligible
4	CO	DG set	Negligible	Negligible

Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(m)	Emission Rate	Temp. of Exhaust Gases
Boiler	1 st	85 m	3.5 m	150 mg/nm ³	160 ^o C
DG set	2 nd	6.3m	440 ^o C
DG set	3 rd	6.3m	440 ^o C

3. The proposal has been considered by SEIAA in its 70th meeting & 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 :

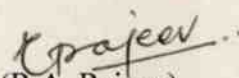
- (i) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (ii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (iii) PP has to abide by the conditions stipulated by SEAC & SEIAA
- (iv) 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.
- (v) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
- (vi) Proper Housekeeping 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 achieve.
- (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) Arrangement shall be made that effluent and storm water does not get mixed.
- (x) 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.
- (xi) 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.
- (xii) 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.

- (xiii) 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.
- (xiv) 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.
- (xv) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xvi) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xvii) 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.
- (xviii) 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.
- (xix) 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.
- (xx) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxi) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xxii) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxiii) 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.
- (xxiv) 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>

- (xxv) 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.
- (xxvi) 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.
- (xxvii) 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, NO_x (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.
- (xxviii) Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.
- (xxix) A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.
- (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 environmental clearance is being issued without prejudice to the action initiated under EP Act or any 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 under EP Act or 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, if any or action initiated under EP Act.
5. 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.
6. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.
7. 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.
8. 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.

9. Any appeal against this environmental clearance shall lie with the National Green Tribunal , Van Vigyan Bhawan, Sec- 5, R.K. Puram, New Dehli – 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010


(R.A. Rajeev)
Principal Secretary,
Environment department &
MS, SEIAA

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
2. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
3. 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).
4. Regional Office, MPCB, Aurnagabad
5. Collector, Osmanabad
6. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
7. Director (TC-1), Dy. Secretary (TC-2), Scientist-1, Environment department.
8. Select file (TC-3).

(EC Uploaded on 16 June, 2014)