

**F. No. J-11011/26/2015-IA.II (I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Impact Assessment Division)**

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Dated: 07<sup>th</sup> June, 2017

**To,**

**The Vice President**  
**(Shri S. Radhakrishnan)**  
**M/s NSL Sugars Limited (Unit III)**  
**Pawarwadi Village, Majalgaon**  
**Beed District, Maharashtra**

**Sub: Expansion of Sugar Plant (7000 to 12000 TCD) and Molasses Based Distillery (100 KLPD) plant along with 3MW co-gen power (in addition to the existing 30MW co-gen power plant) in Pawarwadi Village, Majalgaon Taluka, Beed District, Maharashtra by M/s NSL Sugars Limited (Unit III)- Environmental Clearance- reg.**

**Ref: Online Proposal No. IA/MH/IND2/26637/2015 dated 05<sup>th</sup> October, 2016.**

Sir,

This has reference to your online proposal no. IA/MH/IND2/26637/2015 dated 05<sup>th</sup> October, 2016 along with project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for Expansion of Sugar Plant (7000 to 12000 TCD) and Molasses Based Distillery (100 KLPD) plant along with 3MW co-gen power (in addition to the existing 30MW co-gen power plant) in Pawarwadi Village, Majalgaon Taluka, Beed District, Maharashtra by M/s NSL Sugars Limited (Unit III). As per the information and documents submitted by the Project proponent (PP), the existing land area is 100 acres. No additional land is required for the present proposal. Greenbelt in 25 acres (about 16,000 plants) is developed in the plant premises and remaining 8 acres will be developed in the plant premises. The estimated cost for the proposed unimplemented units will be ₹ 110.0 crores. Total capital cost earmarked towards environmental pollution control measures is ₹ 440 Lakhs and the Recurring cost (operation & maintenance) will be about ₹ 25 Lakhs per annum. The project will provide employment to 50 persons as direct & 100 persons as indirect after expansion. Industry proposes to allocate ₹ 275 Lakhs @ of 2.5 % towards Corporate Social Responsibility. It is reported that, there are no National park, wild life sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves. Wildlife Corridors etc.



lies within 10 km distance. Sindaphana River & Godavari River are flowing at a distance of 3.1 Kms and 8.2 Kms in NW & SSE direction.

3. All molasses based distilleries are listed at S. N. 5(g) (i) of Schedule of EIA Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

4. The project proposal was considered by the Expert Appraisal Committee (Industry - 2) in its 34<sup>th</sup> meeting held during 17<sup>th</sup> February, 2015 and recommended Terms of References (TORs) for the Project. The TOR has been issued by the Ministry vide letter dated 29<sup>th</sup> April, 2015.

5. The EAC (Industry-2) in its 16<sup>th</sup> meeting held during 8<sup>th</sup> - 9<sup>th</sup> December, 2016 and 21<sup>st</sup> meeting held during 27<sup>th</sup> - 29<sup>th</sup> March, 2017 has considered the proposal for environmental clearance (EC). The Project Proponent and the accredited consultant M/s Pioneer Enviro Laboratories & Consultants Pvt. Ltd., Hyderabad gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken, as per the Terms of References (TORs).

6. It is reported that the unit has obtained Environmental Clearance for 12000 TCD sugar plant, 30 MW cogeneration power plant and 100 KLPD Molasses based distillery plant in Pawarwadi Village, Majalgaon Taluk, Beed District, Maharashtra vide order No. J-11011/1264/2007-IA.II (I) dated 30.04.2009 (in the name of M/s Jay Mahesh Sugar Industries Limited). The company is now operating 7000 TCD sugar plant and 30 MW co-gen power plant and the 100 KLPD distillery plant under erection stage. Environmental Clearance validity has been lapsed on 30.04.2014 and due to PP's mistake in interpretation of EC validity, the company was unable to apply for extension of validity before the EC validity tenure and PP has requested for issue of Environmental clearance for unimplemented unit. The unimplemented units comprise of 5000 TCD Sugar plant & 100 KLPD Molasses based Distillery plant. In addition, the company has also proposed to generate additional 3 MW power from Existing 2 X 20 TPH Boilers.

7. The proposed products and capacity are:

S. No.	Unit	Capacity				Operating Days
		As per EC No. J-11011/1264/ 2007-IA II (I) dated 30.04.2009.	Implemented Units	Proposed Capacity	Capacity after expansion	
1.	Sugar	12000 TCD	7000 TCD	5000 TCD	12000 TCD	180
2.	Co-gen Power plant	30 MW	30 MW	3MW	30+3 MW	330
3.	Distillery	100PD	-	100 PD	100 KLPD	270

8. Ambient air quality monitoring was carried out at 8 locations during 1<sup>st</sup> October, 2015 to 31<sup>st</sup> October, 2015 and the baseline data indicates the ranges of

concentrations as: PM<sub>10</sub> (31.3 to 58.3 µg/m<sup>3</sup>) PM<sub>2.5</sub> (19.0 to 35.1 µg/m<sup>3</sup>), SO<sub>2</sub> (6.5 to 12.4 µg/m<sup>3</sup>), and NO<sub>x</sub> (7.2 to 15.9 µg/m<sup>3</sup>), respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.4 µg/m<sup>3</sup>, 2.7 µg/m<sup>3</sup> and 1.7 µg/m<sup>3</sup> with respect to PM<sub>10</sub>, SO<sub>x</sub> and NO<sub>x</sub>. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

9. The total water requirement as per the existing environmental clearance for integrated sugar complex is 6200 KLD. The actual water requirement for existing and proposed unimplemented unit of the integrated sugar complex is 3020 KLD and will be met from ground and surface.

10. The trade effluent generated from 5000 TCD of sugar plant will be treated in the existing 1500 KLD capacity of ETP by Anaerobic system (UASB) followed by Activated Sludge Process. The treated effluent after ensuring compliance with the norms will be utilized for greenbelt & on land for irrigation in R&D farm. The Spent wash generated from Molasses based distillery will be treated in Biomethanisation followed by concentration in Multiple Effect Evaporators (MEE) and then will be sent to Bio composting by utilizing the press mud from the sugar plant in the same premises.

11. Power requirement after expansion will be taken from existing power plant. It is informed that the existing cogeneration power plant (30 MW) is operating with Bagasse as fuel in the 135 TPH Boiler as per EC dated 30.04.2009. It is proposed to use 15 % coal on annual basis in the 135 TPH Boiler as per MNRE guidelines. The required power & steam for distillery and unimplemented sugar plant will be utilized from existing 2x20 TPH boilers and 3 MW TG. Provision will also be made to draw the steam and power from 135 TPH Boiler & 30 MW turbines.

12. ESP has been provided to existing Boiler (135 TPH). Outlet dust emission less than 150 mg/Nm<sup>3</sup> Wet scrubbers will be provided to 2X20 TPH Boilers. Outlet dust emission will less than 50 mg/Nm<sup>3</sup>.

13. The Solid waste/Hazardous waste generation and its management is as below:

S. No.	Solid waste	Quantity (TPD)			Disposal
		Exist- ing	Expan- sion	Total	
Sugar Plant					
1.	Bagasse	2100	1500	3600	Will be used as fuel in Co-gen Boiler of 135 TPH & 2X20 TPH Boilers
2.	Molasses	315	225	540	Will be used in the proposed Distillery
3.	Filter cake	245	175	420	Will be used in Biocomposting
4.	ETP Sludge	0.7	0.5	1.2	Will be used as manure
Cogeneration Power plant					

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5.	When Bagasse used as fuel in Boiler	21.6	--	21.6	Will be disposed to farmers to use as manure in Agricultural lands
	or				
	When Imported coal used as fuel in Boiler	--	43.8	43.8	Will be given to brick manufactures
Distillery					
6.	Yeast Sludge	--	7.6	7.6	Mixed with spent wash and used in Biocomposting
7.	When Bagasse used as fuel in Boiler	--	4.8	4.8	Will be given to farmers to use as manure in Agricultural lands

14. Public consultation has been exempted under 7 (ii) of EIA Notification, 2006.

15. The PP has submitted the certified compliance report issued by Ministry's Regional Office vide no. 5-208/2009 (Env) dated 11.05.2016. The EAC has found the certified compliance report to be satisfactory.

16. The EAC, in its 21<sup>st</sup> meeting held during 27<sup>th</sup> – 29<sup>th</sup> March, 2017, has found that the final EIA/EMP report submitted by the PP is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the PP, has recommended the project for environmental clearance with certain conditions.

17. Based on the proposal and information submitted by the Project Proponent, and considering the recommendation of the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

**A. Specific conditions:**

- i. As proposed Zero liquid discharge system shall be installed.
- ii. Particulate matter in the exhaust gas of existing 135 TPH & 2 X20 TPH boilers will be maintained below 50 mg/Nm<sup>3</sup>.
- iii. Energy meters are already provided to air pollution control systems to ensure effective operation of the control systems.
- iv. 10 M wide green belt of perennial native plants shall be developed inside the plant periphery. PP shall also ensure 33 % green area in the premises.
- v. Rainwater harvesting pits will be constructed to harvest the run-off water from roof top by laying a separate storm water drainage system for

- recharging of ground water in consultation with the State Ground Water Board.
- vi. The daily fresh water consumption shall be not more than 8kl/kl. Total net water requirement after expansion 3,100 KLD shall be reduced accordingly.
  - vii. Total spent wash generation will be restricted to a max. of 8 kl/kl of R.S. Spent wash from molasses based distillery will be sent to biomethanisation plant and then the same will be concentrated in Multiple Effect Evaporators (MEE) followed by Bio-composting.
  - viii. Boiler ash to be generated from the boilers shall be sold to authorized brick manufacturers.
  - ix. The number of operating days of the unit shall not exceed the proposed. Sugars plant will be operated for 180 days in years, Cogeneration power plant will be operated for 330 days in a year and distillery plant will be operated for 270 days in years.
  - x. As proposed, employment to about 50 persons once the plant is commissioned and for 150 persons during construction stage out of which 60% of vacancies shall be allotted to the local people of nearby villages as per their qualification. A status report with name shall be provided in the 6 monthly compliance report to the RO, MoEF&CC.
  - xi. PP shall have an environmental cell in the unit with a qualified person having post graduate qualification in Environmental Sciences/Environmental Engineering.
  - xii. PP shall plant 2000 perennial native plants per year till five years in the surrounding villages. Survival rate of the plants will be mentioned in the 6 monthly compliance report to RO, MoEF&CC.

#### **B. General Conditions:**

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, State Government and any other statutory authority.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. 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.
- v. 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. 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).



- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vii. 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.
- viii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- ix. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.
- x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xii. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.
- xiii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.
- xiv. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xv. The environmental statement for each financial year ending 31<sup>st</sup> 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 of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- xvi. 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 SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.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

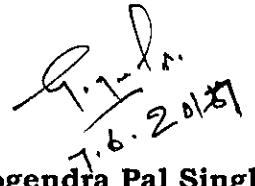
which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

xvii. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

18. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

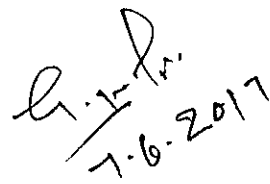
19. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

20. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
(Yogendra Pal Singh)  
Scientist 'D'

**Copy to:-**

1. The Secretary, Environment Department, Government of Maharashtra, 15<sup>th</sup> Floor, New Administrative Building, Mantralaya, Mumbai - 400 032.
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur - 440 001.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, Mumbai - 400 022.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh, New Delhi - 110 003.
6. Guard File/Monitoring File/Website/Record File.

  
(Yogendra Pal Singh)  
Scientist 'D'

