

**F. No. J-11011/35/2014-IA II (I)**  
**Government of India**  
**Ministry of Environment, Forests and Climate Change**  
**(I.A. Division)**

**Indira Paryavaran Bhawan**  
**Aliganj, jorbagh Road**  
**New Delhi – 110 003**

**E-mail : [lk.bokolia@nic.in](mailto:lk.bokolia@nic.in)**

**Telefax : 011: 24695401**

**Dated: 14<sup>th</sup> February, 2015**

To,

Shri S R Bhagat,  
Executive Director,  
M/s Shri Ambalika Sugar Pvt. Ltd.,  
Ambalika Nagar,  
A/P-Jagdamba Factory, Taluka Karjat,  
District Ahmednagar.

**E-mail: [shriambalikasugar@gmail.com](mailto:shriambalikasugar@gmail.com);**

**Subject: Expansion of Sugar Unit (from 3300 TCD to 7500 TCD), Cogeneration Power Plant (from 15 MW to 38 MW) and inclusion of Molasses based Distillery (60 KLPD) at Ambalika Nagar, A/P Jagdamba Factory, Taluka Katjat, District Ahmednagar, Maharashtra by M/s Shri Ambalika Sugar Pvt. Ltd. -Environmental Clearance reg.**

**Ref. : Your letter no. nil dated 7<sup>th</sup> November, 2014.**

Sir,

Kindly refer to your letter dated 7<sup>th</sup> November, 2014 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report alongwith Public Hearing Report on the above mentioned subject.

2.0 The Ministry of Environment, Forests and Climate Change has examined the application. It is noted that proposal is for expansion of Sugar Unit (from 3300 TCD to 7500 TCD), Cogeneration Power Plant (from 15 MW to 38 MW) and inclusion of Molasses based Distillery (60 KLPD) at Ambalika Nagar, A/P Jagdamba Factory, Taluka Katjat, District Ahmednagar, Maharashtra by M/s Shri Ambalika Sugar Pvt. Ltd. Existing plot area is 300 acre, area earmarked for the greenbelt development 110 acres. Cost of project is Rs. 348.93 Crore. River Bhima is flowing at a distance of 6.6 Km. It is reported that no wildlife sanctuary/national park is located within 10 Km distance. Following are the details of existing and expansion project:

S.N.	Production Unit	No of working days in a year	Existing	Additional Capacity	Total
1	Sugar Unit	180 days	3300 TCD	4200 TCD	7500 TCD
2	Cogeneration Power Unit	270 days	15 MW	23 MW	38 MW
3	Distillery	300 days	--	60 KLPD	60 KLPD

Molasses (60750 TPA) will be obtained from captive source and remaining (11250 TPA) will be sourced from nearby sugar industries (without associated distillery).

3.0 ESP alongwith stack of adequate height will be provided to biomass/agro-residue/coal fired boiler (1x90TPH + 1x110 TPH) and concentered spent wash fired boiler (28 TPH) to control particulate emissions within 50 mg/Nm<sup>3</sup>. Fresh water requirement for sugar and cogen power plant after expansion will be 1180 m<sup>3</sup>/day. Fresh water requirement for distillery will be 600 m<sup>3</sup>/day. Source of fresh water supply is River Bhima. Spent wash will be concentrated in MEE (Multiple Effect Evaporator) and concentrated spent wash will be incinerated in incineration boiler to achieve zero discharge. No effluent from distillery will be discharged outside the factory premises. Condensate water, effluent from utility and treated spentlees will be treated in effluent treatment plant (ETP) and treated effluent will be reused as dilution water for fermentation, cooling tower and boiler make up. Effluent generation from Sugar plant will be treated in the ETP and treated effluent will be reused for irrigation or recycled for cooling tower make up. No effluent will be discharged outside the plant premises. Fly ash from bagasse as a fuel and incinerated ash will be sent to compost yard. Spent oil will be sold to authorized recyclers/re-processors.

4.0 Public Hearing / Public Consultation meeting was conducted on 2<sup>nd</sup> September, 2014.

5.0 All molasses based distilleries and cane juice/non-molasses based distillery (>30 KLD) are listed at S.N. 5(g) (i) & (ii) respectively under category 'A' and appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its meetings held during 28<sup>th</sup>-30<sup>th</sup> May, 2014 and 1<sup>st</sup> to 2<sup>nd</sup> December, 2014 respectively. Project Proponent and the EIA Consultant namely Ultra-Tech, have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment, Forests and Climate Change hereby accords environmental clearance to 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) Environment clearance accorded is for molasses based distillery unit (60 KLPD) and no grain based distillery unit shall be operated without prior permission from the Ministry.
- ii) ESP alongwith stack of adequate height shall be provided to bagasse fired boilers to control particulate emissions within 50 mg/Nm<sup>3</sup>. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- iii) In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records shall be maintained. The emissions shall conform to the limits imposed by Maharashtra Pollution Control Board (MPCB).

- iv) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB guidelines. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- v) 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 MPCB. The levels of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO and HC (Methane) in ambient air shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.
- vi) Pucca approach road to project site shall be constructed prior to commencing construction activity of the main distillery to avoid fugitive emissions.
- vii) Total fresh water requirement from river for distillery and sugar alongwith cogeneration shall not exceed 1780 m<sup>3</sup>/day. Prior permission for the drawl of water shall be obtained from the Competent Authority.
- viii) Spent wash generation from molasses shall not exceed 8 Kl/Kl of alcohol produced (i.e. 480 m<sup>3</sup>/day). The spent wash from molasses based distillery should be concentrated in MEE and concentrated spent wash shall be incinerated in incineration boiler to achieve zero discharge. As proposed, condensate water and treated spentlees will be treated in ETP and treated effluent shall be reused as dilution water for fermentation, cooling tower and boiler make up.
- ix) Wastewater generation from the sugar unit shall not exceed 100 litres per tonne of cane crushed. Effluent from sugar unit shall be treated in the effluent treatment plant (ETP). Water quality of treated effluent shall be monitored regularly. In any case, no wastewater/treated effluent shall be discharged into river/natural stream. Domestic effluent shall be treated in treatment plant.
- x) Spent wash shall be stored in impervious lagoon with HDPE lining as per CPCB guidelines and shall be kept in proper condition to prevent ground water pollution. Storage capacity of spent wash lagoon shall be for 5 days.
- xi) Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Bhopal and MPCB.
- xii) As proposed, no effluent from sugar, distillery and co-generation power plant shall be discharged outside the premises and Zero effluent discharge concept shall be followed.
- xiii) Automatic/online monitoring system for flow measurement and for relevant pollutants in the treatment system to be installed. The data to be made available to respective SPCB and in the Company's website.

- xiv) Baggase storage should be done in such a way that it does not get air borne or fly around due to wind. Fly ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing alongwith the storm water. Direct exposure of workers to fly ash & dust shall be avoided.
- xv) Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for fire fighting shall be made to control fire from the alcohol storage tank.
- xvi) Risk Assessment shall be carried to assess the fire and explosion risk due to storage of alcohol and report submitted to the Ministry and its Regional Office at Bhopal within six months.
- xvii) Occupational health surveillance programme should be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre should be strengthened and the regular medical test records of each employee should be maintained separately.
- xviii) Dedicated parking facility for loading and unloading of material shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
- xix) Green belt should be developed in 110 acres out of 300 acres within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xx) Occupational health surveillance programme should be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre should be strengthened and the medical records of each employee should be maintained separately.
- xxi) All the commitments made during the Public Hearing / Public Consultation meeting held on 2<sup>nd</sup> September, 2014 should be satisfactorily implemented and adequate budget provision should be made accordingly.
- xxii) At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.
- xxiii) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board (MPCB), 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 and Forests. 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 MPCB and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. 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).
- v. 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.
- vi. During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- vii. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
- viii. 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.
- ix. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
- x. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.
- xi. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiii. The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests 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.

- xiv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.
- xv. 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, the respective Zonal Office of CPCB and the Maharashtra Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xvi. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated shall be submitted to the UP 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 Bhopal Regional Offices of MoEF by e-mail.
- xvii. 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://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 and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- xviii. 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.

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

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

10.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

11.0 Environment Clearance is issued to M/s Shri Ambalika Sugar Pvt. Ltd for expansion of Sugar Unit (from 3300 TCD to 7500 TCD), Cogeneration Power Plant (from 15 MW to 38 MW) and inclusion of Molasses based Distillery (60 KLPD) at Ambalika Nagar, A/P Jagdamba Factory, Taluka Katjat, District Ahmednagar, Maharashtra.

**(Lalit Bokolia)**  
**Additional Director**

**Copy to :-**

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032
2. The Chief Conservator of Forests (Central), Kendriya Paryavaran Bhavan, Link Road No.3, Bhopal-462016.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New 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, Forests and Climate Change , Indira Paryavaran Bhavan, Aliganj , New Delhi.
6. Guard File/Monitoring File/Record File.

**(Lalit Bokolia)**  
**Additional Director**

**Brief Background of the proposed project - Expansion of Sugar Unit (from 3300 TCD to 7500 TCD), Cogeneration Power Plant (from 15 MW to 38 MW) and inclusion of Molasses based Distillery (60 KLPD) at Ambalika Nagar, A/P Jagdamba Factory, Taluka Katjat, District Ahmednagar, Maharashtra by M/s Shri Ambalika Sugar Pvt. Ltd. -Environmental Clearance reg.**

1.	Location	Ambalika Nagar, A/P Jagdamba Factory, Taluka Katjat, District Ahmednagar, Maharashtra
2.	Project Cost	Rs. 348.93 Crore
3.	Capacity	<b>Expansion of Sugar Unit (from 3300 TCD to 7500 TCD), Cogeneration Power Plant (from 15 MW to 38 MW) and inclusion of Molasses based Distillery (60 KLPD)</b>
4.	New/Expansion of the existing project	Expansion ( Sugar Unit) New ( Distillery)
5.	Type of Clearance	Environmental Clearance
6.	Category of Project	'A'
7.	Details of Project Proponent	Shri S R Bhagat, Executive Director, M/s Shri Ambalika Sugar Pvt. Ltd., Ambalika Nagar, A/P-Jagdamba Factory, Taluka Karjat, District Ahmednagar. <b>E-mail: <a href="mailto:shriambalikasugar@gmail.com">shriambalikasugar@gmail.com</a>;</b>
8.	Public hearing	Public hearing of the project was held on 2 <sup>nd</sup> September, 2014.
9.	Details of Court Case as reported by PP	No litigation is pending /filed pertaining to the project.
10.	Consideration by the Expert Appraisal Committee	The proposal was appraised by the EAC (Industries) in its <i>Meetings held during</i> in its meetings held during 28 <sup>th</sup> -30 <sup>th</sup> May, 2014 and 1 <sup>st</sup> to 2 <sup>nd</sup> December, 2014 respectively wherein the Committee <i>recommended environmental clearance</i> for the proposal subject to stipulation of specific conditions, which have been incorporated in the Draft EC.
11.	Environmental, Social and Economic aspects addressed by EAC	ESP alongwith stack of adequate height will be provided to biomass/agro-residue/coal fired boiler (1x90TPH + 1x110 TPH) and concentrated spent wash fired boiler (28 TPH) to control particulate emissions within 50 mg/Nm <sup>3</sup> . Fresh water requirement for sugar and cogen power plant after expansion will be 1180 m <sup>3</sup> /day. Fresh water requirement for distillery will be 600 m <sup>3</sup> /day. Source of fresh water supply is River Bhima. Spent wash will be concentrated in MEE (Multiple Effect Evaporator) and concentrated spent wash will be incinerated in incineration boiler to achieve zero discharge. No effluent from distillery will be discharged outside the factory premises. Condensate water, effluent from utility and treated spentlees will be treated in effluent treatment plant (ETP) and treated effluent will be reused as dilution water for fermentation, cooling tower and boiler make up. Effluent generation from Sugar plant will be treated in the ETP and treated effluent will be reused for irrigation or recycled for cooling tower make up. No effluent will be discharged outside the plant premises. Fly ash from bagasse as a fuel and incinerated ash will be sent to compost yard. Spent oil will be sold to authorized recyclers/re-processors.

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**Subject: Expansion of Sugar Unit (from 3300 TCD to 7500 TCD), Cogeneration Power Plant (from 15 MW to 38 MW) and inclusion of Molasses based Distillery (60 KLPD) at Ambalika Nagar, A/P Jagdamba Factory, Taluka Katjat, District Ahmednagar, Maharashtra by M/s Shri Ambalika Sugar Pvt. Ltd. - Environmental Clearance reg.**

M/s Shri Ambalika Sugar Pvt. Ltd. has proposed for expansion of Sugar Unit (from 3300 TCD to 7500 TCD), Cogeneration Power Plant (from 15 MW to 38 MW) and inclusion of Molasses based Distillery (60 KLPD) at Ambalika Nagar, A/P Jagdamba Factory, Taluka Katjat, District Ahmednagar, Maharashtra. Existing plot area is 300 acre, area earmarked for the greenbelt development 110 acres. Cost of project has been revised from Rs. 283.7 Crore (at TOR stage) to Rs. 348.93 Crore. River Bhima is flowing at a distance of 6.6 Km. It is reported that no wildlife sanctuary/national park is located within 10 Km distance. Following are the details of existing and expansion project:

S.N.	Production Unit	No of working days in a year	Existing	Additional Capacity	Total
1	Sugar Unit	180 days	3300 TCD	4200 TCD	7500 TCD
2	Cogeneration Power Unit	270 days	15 MW	23 MW	38 MW
3	Distillery	300 days	--	60 KLPD	60 KLPD

Molasses (60750 TPA) will be obtained from captive source and remaining (11250 TPA) will be sourced from nearby sugar industries (without associated distillery).

2.0 ESP alongwith stack of adequate height will be provided to biomass/agro-residue/coal fired boiler (1x90 TPH + 1x110 TPH) and centered spent wash fired boiler (28 TPH) to control particulate emissions within 50 mg/Nm<sup>3</sup>. Fresh water requirement for sugar and cogeneration power plant after expansion will be 1180 m<sup>3</sup>/day. Fresh water requirement for distillery will be 600 m<sup>3</sup>/day. Source of fresh water supply is River Bhima. Spent wash will be concentrated in MEE (Multiple Effect Evaporator) and concentrated spent wash will be incinerated in incineration boiler to achieve zero discharge. No effluent from distillery will be discharged outside the factory premises. Condensate water, effluent from utility and treated spentlees will be treated in effluent treatment plant (ETP) and treated effluent will be reused as dilution water for fermentation, cooling tower and boiler make up. Effluent generation from Sugar plant will be treated in the ETP and treated effluent will be reused for irrigation or recycled for cooling tower make up. No effluent will be discharged outside the plant premises. Fly ash from bagasse as a fuel and incinerated ash will be sent to compost yard. Spent oil will be sold to authorized recyclers/re-processors.

3.0 Public hearing of the project was conducted by the Maharashtra Pollution Control Board on 2<sup>nd</sup> September, 2014 (F/PHR). The important issues raised during public hearing were regarding disposal of wastewater, local employment, disposal of solid waste, water conservation, air pollution control measures etc. regarding spent wash treatment, PP informed that spent wash generated from distillery will be concentrated in MEE and concentrated spent wash will be burned in incineration boiler. Regarding local employment, PP informed that in future Company will retain 85 % of people from the local area. The existing employees are given training as per requirement. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.

4.0 After detailed deliberations, the Expert Appraisal Committee (Industry) discussed Form1 and finalized the draft TOR in its 19<sup>th</sup> Meeting held during 28<sup>th</sup>–30<sup>th</sup> May, 2014 and suggested 'TORs' for incorporation in EIA/EMP report (p. 64-69/c). The suggested TORs have been incorporated in the final EIA/EMP report. The project was considered in the 28<sup>th</sup> Meeting of the Expert Appraisal Committee (Industry) held during 1<sup>st</sup> – 2<sup>nd</sup> December, 2014 and the Committee recommended the proposal for the grant of environmental clearance subject to the specific conditions (p. 82-85/c). The specific conditions suggested have been incorporated in the DFA.

5.0 The proposal may be considered for environmental clearance subject to compliance of specific environmental conditions stipulated in the DFA.

Submitted please.

**(A N Singh)**  
**Jt. Director (S)**  
**12<sup>th</sup> January, 2015**

AD(LB)



**MINUTES FOR 28<sup>th</sup> RECONSTITUTED EXPERT APPRAISAL COMMITTEE**  
**(INDUSTRY-2) HELD DURING 1<sup>st</sup>-2<sup>nd</sup> DECEMBER, 2014**

**VENUE:** Indus Hall, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhawan Aliganj, Jorbagh Road, New Delhi -110003.

**Time:** Meeting to be held on 10: 00 AM

**28.1:** Opening Remarks of the Chairman

**Time:** 10: 00 - 10: 30 AM

**28.2:** Confirmation of the Minutes of the 26<sup>th</sup> Reconstituted Expert Appraisal Committee (Industry-2) held during 29<sup>th</sup> – 30<sup>th</sup> October, 2014.

**28.3 Environmental Clearance**

**28.3.3 Expansion of Sugar Unit (from 3300 TCD to 6500 TCD), Cogeneration Power Plant (from 15 MW to 38 MW) and inclusion of Molasses based Distillery (60 KLPD) at Ambalika Nagar, A/P Jagdamba Factory, Taluka Katjat, District Ahmednagar, Maharashtra by M/s Shri Ambalika Sugar Pvt. Ltd.– reg. EC**

The project proponent and their consultant (Ultratech Environmental Consultancy & Laboratory) gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken as per Draft Terms of References (TORs) awarded during the 19<sup>th</sup> Meeting of the Expert Appraisal Committee (Industry) held during 28<sup>th</sup>-30<sup>th</sup> May, 2014 for preparation of EIA-EMP report. All molasses based distilleries are listed at S.N. 5(g) (i) under category 'A' and appraised at Central level.

M/s Shri Ambalika Sugar Pvt. Ltd. has proposed for expansion of Sugar Unit ( from 3300 TCD to 6500 TCD), Cogeneration Power Plant ( from 15 MW to 38 MW) and inclusion of Molasses based Distillery (60 KLPD) at Ambalika Nagar, A/P Jagdamba Factory, Taluka Katjat, District Ahmednagar, Maharashtra. Existing plot area is 300 acre, of which greenbelt will be developed in 110 acres of land. Cost of project has been revised from Rs. 283.7 Crore (at TOR stage) to Rs. 348.93 Crore. River Bhima is flowing at a distance of 6.6 Km. It is reported that no wildlife sanctuary/national park is located within 10 Km distance. Following are the details of existing ad expansion project:

S.N.	Production Unit	No of working days in a year	Existing	Additional Capacity	Total
1	Sugar Unit	180 days	3300 TCD	4200 TCD	7500 TCD
2	Cogeneration Power Unit	270 days	15 MW	23 MW	38 MW
3	Distillery	300 days	--	60 KLPD	60 KLPD

Molasses (60750 TPA) will be obtained from captive source and remaining (11250 TPA) will be sourced from nearby sugar industries (without associated distillery).

Ambient air quality monitoring was carried out at 9 locations during March, 2014 –May, 2014 and submitted data indicates as PM10 (60.12–64.8 ug/m3), PM2.5 (40.32–48.7 ug/m3), SO2 (30.36 – 40.09 ug/m3) and NOx (33.4-38.4 ug/m3). Predicted value of ground level concentration due to proposed project is SPM (0.9 ug/m3) and SO<sub>2</sub> (4.6 ug/m3). The resultant concentrations are within the NAAQS. ESP alongwith stack of adequate height will be provided to biomass/agro-residue/coal fired boiler (1x90 + 1x110 TPH). ESP alongwith stack of adequate height will be provided to concentered spent wash fired boiler (28 TPH). DG set (2x 1000 KVA + 1x 250 KVA) will be installed. Rs. 49.05 Crores and Rs. 9.24 crores per annum are earmarked for Capital cost recurring cost for pollution control measures. Fresh water requirement for sugar and cogen power plant after expansion will be 1180 m3/day. PP informed that fresh water requirement for distillery will

be 959 m<sup>3</sup>/day. However, the Committee suggested that distillery water consumption shall be based on 10 KI per KL alcohol production. Effluent (1040 m<sup>3</sup>/day) from sugar and cogen will be treated in ETP. Sober, moderate effluent and condensate water will be treated in the treatment scheme comprises equalization, anaerobic treatment, aerobic treatment and tertiary treatment etc. Spent wash will be concentrated in MEE and concentrated spent wash will be incinerated in incineration boiler to achieve zero discharge. PP informed that Rs 9.0 Crore amounts have been allocated under ESR. PP informed that fifteen meter wide greenbelt will be done at entire boundary. One row of trees on both sides of internal roads with canopy will be provided.

The Committee deliberated upon the issues raised during the Public Hearing / Public Consultation meeting conducted by the Maharashtra Pollution Control Board on 2<sup>nd</sup> September, 2014 under the chairmanship of Additional District Magistrate. The issues were raised regarding disposal of wastewater, local employment, disposal of solid waste, water conservation, air pollution control measures etc. regarding spent wash treatment, PP informed that spent wash generated from distillery will be concentrated in MEE and concentrated spent wash will be burned in incineration boiler. Regarding local employment, PP informed that in future Company will retain 85 % of people from the local area. The existing employees are given training as per requirement. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.

After detailed deliberations, the Committee recommended the project for environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance:

- i) ESP alongwith stack of adequate height shall be provided to bagasse fired boilers to control particulate emissions within 50 mg/Nm<sup>3</sup>. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- ii) Pucca approach road to project site shall be constructed prior to commencing construction activity of the main distillery to avoid fugitive emissions.
- iii) Total fresh water requirement from river for distillery and sugar alongwith cogeneration shall not exceed 1780 m<sup>3</sup>/day. Prior permission for the drawl of water shall be obtained from the Competent Authority.
- iv) Spent wash generation from molasses shall not exceed 8 KI/KI of alcohol produced (i.e. 480 m<sup>3</sup>/day). The spent wash from molasses based distillery should be concentrated in MEE and concentrated spent wash shall be incinerated in incineration boiler to achieve zero discharge. Condensate water and treated spentlees will be treated in ETP and treated effluent shall be reused as dilution water for fermentation, cooling tower and boiler make up.
- v) Wastewater generation from the sugar unit shall not exceed 100 litres per tonne of cane crushed. Effluent from sugar unit shall be treated in the effluent treatment plant (ETP). Water quality of treated effluent shall be monitored regularly. In any case, no wastewater/treated effluent shall be discharged into river/natural stream. Domestic effluent shall be treated in treatment plant.
- vi) Spent wash shall be stored in impervious lagoon with HDPE lining as per CPCB guidelines and shall be kept in proper condition to prevent ground water pollution. Storage capacity of spent wash lagoon shall be for 5 days.
- vii) Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Bhopal and MPCB.
- viii) As proposed, no effluent from sugar, distillery and co-generation power plant shall be discharged outside the premises and Zero effluent discharge concept shall be followed.
- ix) Bagasse storage should be done in such a way that it does not get air borne or fly around due to wind. Fly ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing alongwith the storm water. Direct exposure of workers to fly ash & dust shall be avoided.

- x) Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for fire fighting shall be made to control fire from the alcohol storage tank.
- xi) Risk Assessment shall be carried to assess the fire and explosion risk due to storage of alcohol and report submitted to the Ministry and its Regional Office at Bhopal within six months.
- xii) Occupational health surveillance programme should be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre should be strengthened and the regular medical test records of each employee should be maintained separately.
- xiii) Dedicated parking facility for loading and unloading of material shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
- xiv) Green belt should be developed in 110 acres out of 300 acres to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO.
- xv) All the commitments made during the Public Hearing / Public Consultation meeting held on 2<sup>nd</sup> September, 2014 should be satisfactorily implemented and adequate budget provision should be made accordingly.
- xvi) At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.

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**F. No. J-11011/35/2014-IA II (I)**  
**Government of India**  
**Ministry of Environment, Forests and Climate Change**  
**(I.A. Division)**

Indira Paryavaran Bhawan  
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Dated: November, 2014

To,

Shri G S Datta (CE (D), InCharge HSE)  
M/s Oil & Natural Gas Corporation Ltd.  
1<sup>st</sup> Floor, HSCL Building,  
Nayamore Bokaro- 82700, Jharkhand

**E-mail: [gourisankar.datta@yahoo.co.in](mailto:gourisankar.datta@yahoo.co.in) ; [data.gouri@ongc.co.in](mailto:data.gouri@ongc.co.in) ; Fax No. :??**

**Subject: Cogeneration Power plant (from 15 MW to 38 MW) and inclusion of Molasses based Distillery (60 KLPD) at Ambalika Nagar, A/P Jagdamba Factory, Taluka Katjat, District Ahmednagar, Maharashtra by M/s Shri Ambalika Sugar Pvt. Ltd.**

**Ref. : Your letter no. ONGC/CHSE/ENV/EC/2014 dated 28<sup>th</sup> June, 2014**

Sir,

The above proposal will be considered in the 28<sup>th</sup> Reconstituted Expert Appraisal Committee (Industry) on 1<sup>st</sup> December, 2014(10.00 AM)# (item no. 28.3.4) to be held at Indus Hall, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhawan Aliganj, Jorbagh Road, New Delhi -110003 subject to submission of additional information desired by the Ministry, if any.

In this regard, you are requested to forward a copy of final EIA/EMP report alongwith public hearing report to all the members of the Expert committee (I-2) by courier/speed post alongwith soft copy in CD/through e-mail well in time. Name and address of the members are enclosed for necessary action. Please avoid delivery of documents by hand and separate meetings with members/Chairman in this regard.

Further, you are requested to depute your senior officer/consultant who can explain the project and also respond to the queries/ suggestions with Committee may ask during the discussion and may make as well necessary commitments to attend the meeting. The representatives would be required to make a presentation on the salient features of the project and proposed Environmental Management Plan as per the TORs awarded. A copy of the presentation may be submitted to the undersigned before the meeting and presented before the committee as per the TORs awarded.

A copy of the above mentioned documents may also be sent to **the Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office, Kendriya Paryavaran Bhavan, Link Road No.3, Bhopal-462016.** for records and comments, if any

Salient features (1-2 pages) of the proposed project mentioning title of the project, land acquired, cost of the project capital and recurring cost towards environment protection measures; proposed facilities and production capacities in tabular form, air pollution control measures proposed, water requirement, waste water treatment, recycle & reuse, solid /hazardous waste management and disposal, green belt may also **be submitted by e-mail to [lk.bokolia@nic.in](mailto:lk.bokolia@nic.in)**

Kindly confirm your participation and also send information as per the Agenda at the Ministry's website: [www.envfor.nic.in](http://www.envfor.nic.in) to all concerned.

**(Lalit Bokolia)**  
**Additional Director**

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