

F. No. J-11011/93/2012-IA II (I)
Government of India
Ministry of Environment, Forests and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road,
New Delhi -110003

E-mail : lk.bokolia@nic.in
Telefax : 011: 2469 5401
Dated : 14th February, 2015

To,

Shri K.Marimuthu, Executive Vice President
M/s GEM Sugars Limited
Hoodi Apartments, 120 Cunningham Road
Bengaluru -560 052 Karnataka

E-mail: gemsugars@yahoo.com ; Fax No.: 080-2238 - 5433

Subject: Installation of Molasses based Distillery Plant (60 KLPD) alongwith CPP (2 MW) in the existing Sugar Plant (6500 TCD) alongwith Cogeneration Power Plant (22.5 MW) at Parts of Survey Nos. 125 to 134, 325 to 328, Village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka by M/s GEM Sugars Ltd. — Environmental Clearance reg.

Ref. : Your letter no. GSL/KUNDARGI/MOEF/2013-14/01 dated 20th January, 2014.

Sir,

This has reference to your letter dated 20th January, 2014 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report alongwith Public Hearing Report and subsequent submission of additional information vide letter dated 15th October, 2014 regarding above mentioned project.

2.0 The Ministry of Environment, Forests and Climate Change has examined the application. It is noted that proposal is for installation of Molasses based Distillery Plant (60 KLPD) alongwith CPP (2 MW) in the existing Sugar Plant (6500 TCD) alongwith Cogeneration Power Plant (22.5 MW) at Parts of Survey Nos. 125 to 134, 325 to 328, Village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka by M/s GEM Sugars Ltd. Total plot area of the existing unit is 242.15 acres of which, the proposed distillery unit will be installed in 13 acres of land. Area earmarked for greenbelt is 75.78 acres. Total cost of project is Rs. 70 Crores. Ghataprabha River is flowing at a distance of 5.5 km. Almatti Reservoir is located at a distance of 1.6 Km. Reserve Forest is near Arakeri village at a distance of 0.5 KM. It is reported that no wildlife sanctuary/national park/elephant /tiger reserve is located within 10 Km distance from the project site. Distillery will be operated for 300 days. Bagasse will be used as fuel. In case of non-availability of bagasse, boiler will be operated on coal and coal will be obtained from E-auction.

3.0 Bagfilter alongwith stack of adequate height will be provided to spent wash fired boiler (22 TPH) to control particulate emissions within 50 mg/Nm³. Fresh water requirement from River Ghataprabha will be 643 m³/day for distillery and CPP. Spent wash generation will be 480 m³/day. Spent wash will be evaporated in multiple effect evaporator (MEE) and concentrated spent wash will

be incinerated in the boiler. Condensate will be recovered at the tune of 409 m³/day and recycled back to process. Spent lees will be treated through Reverse Osmosis (RO). RO permeate will be recycled back to process. RO rejects will be treated in the effluent treatment plant (ETP) of Sugar plant. No effluent will be discharged outside the plant premises. Boiler ash will be sent to farm as soil conditioning. Fermented sludge will be used as cattle feed. Spent oil will be sold to authorized recyclers/re-processors.

4.0 Public Hearing / Public Consultation meeting was conducted on 29th October, 2013.

5.0 All molasses based distilleries are listed at S.N. 5(g) (i) 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 11th-12th June, 2012, 28th – 30th April, 2014 and 1st and 2nd December, 2014 respectively. Project Proponent and the EIA Consultant namely M/s B S ENVI – TECH (P) Ltd., 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 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

- i) Distillery unit shall be based on Molasses based only and no Grain based distillery unit shall be operated. Distillery shall be operated for 300 days.
- ii) Bagfilter along with stack of adequate height shall be provided to bagasse/spent wash slops/imported coal fired boilers (22TPH) to control particulate emissions within 50 mg/Nm³. 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 prescribed by Karnataka State Pollution Control Board (KSPCB).
- 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 KSPCB. The levels of PM₁₀, PM_{2.5}, SO₂, NO_x, 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 Ghataprabha shall not exceed 643m³/day for distillery and CPP and prior permission shall be obtained from the Competent Authority. Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.
- viii) Spent wash generation from molasses based distillery shall not exceed 8 KI/KI of alcohol. The spent wash from molasses based distillery shall be evaporated in MEE and concentrated spent wash will be incinerated in incineration boiler to achieve 'Zero' discharge. Evaporator Condensate shall be treated and recycled/reused in process. Spentlees will be treated in RO and RO permeate will be recycled back in the process. RO rejects shall be treated in ETP of Sugar unit.
- ix) 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.
- x) 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 Bangalore and KSPCB.
- xi) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- xii) As proposed, no effluent from distillery and co-generation power plant shall be discharged outside the plant premises and Zero discharge shall be adopted. Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.
- 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 shall 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) Boiler 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. Bagasse ash and coal ash shall be stored separately.

- xvi) 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.
- xvii) Risk Assessment should 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 Bangalore within six months.
- xviii) 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.
- xix) 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.
- xx) As proposed, green belt over 33 % of the total project area shall be developed 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.
- xxi) All the commitments made during the Public Hearing/Public Consultation meeting held on 29th October, 2013 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xxii) At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program shall 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 Karnataka State Pollution Control Board (KSPCB), 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 State Pollution Control Board (SPCB) 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 National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th 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, risk mitigation measures and public hearing 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 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.
- xiii. 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 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, the respective Zonal Office of CPCB and KSPCB. 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 31st 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 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.

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 Environmental Clearance is issued to M/s GEM Sugars Ltd. for Installation of Molasses based Distillery Plant (60 KLPD) alongwith CPP (2 MW) in the existing Sugar Plant (6500 TCD) alongwith Cogeneration Power Plant (22.5 MW) at Parts of Survey Nos. 125 to 134, 325 to 328, Village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka.

(Lalit Bokolia)
Additional Director

Copy to:-

1. The Secretary, Department of Environment & Ecology, Govt. of Karnataka, Room No. 708, Gate 2, Multi Storied Building, Dr. AmbedkarVeedhi, Bangalore - 560 001 secyenv-fee@karnataka.gov.in
2. The Chief Conservator of Forests, Regional Office (Southern Zone, Bangalore)KendriyaSadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034.
3. The Chairman, Central Pollution Control Board PariveshBhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Karnataka State Pollution Control Board, #49, ParisaraBhavana, Church Street, Bangalore-01 (Karnataka).
5. The District Collector, District Mandya, Karnataka.
6. Monitoring Cell, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh, Aliganj Complex, New Delhi.
7. Guard File/Monitoring File/Record File.

(Lalit Bokolia)
Additional Director

Brief Background of the proposed project - Installation of Molasses based Distillery Plant (60 KLPD) alongwith CPP (2 MW) in the existing Sugar Plant (6500 TCD) alongwith Cogeneration Power Plant (22.5 MW) at Parts of Survey Nos. 125 to 134, 325 to 328, Village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka by M/s GEM Sugars Ltd. — Environmental Clearance reg.

| | | |
|-----|---|--|
| 1. | Location | Parts of Survey Nos. 125 to 134, 325 to 328, Village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka |
| 2. | Project Cost | Rs. 70 Crores |
| 3. | Capacity | Distillery (60 KLPD) |
| 4. | New/Expansion of the existing project | New |
| 5. | Type of Clearance | Environmental Clearance |
| 6. | Category of Project | 'A' |
| 7. | Details of Project Proponent | Shri K.Marimuthu, Executive Vice President M/s GEM Sugars Limited Hoodi Apartments, 120 Cunningham Road Bengaluru -560 052 Karnataka E-mail: gemsugars@yahoo.com ; Fax No.: 080-2238 - 5433 |
| 8. | Public hearing | Public hearing of the project was held on 29 th October, 2013. |
| 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 11 th -12 th June, 2012, 28 th – 30 th April, 2014 and 1 st and 2 nd 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 | Bagfilter alongwith stack of adequate height will be provided to spentwash fired boiler (22 TPH) to control particulate emissions within 50 mg/Nm ³ . Fresh water requirement from River Ghataprabha will be 643 m ³ /day for distillery and CPP. Spent wash generation will be 480 m ³ /day. Spent wash will be evaporated in multiple effect evaporator (MEE) and concentrated spent wash will be incinerated in the boiler. Condensate will be recovered at the tune of 409 m ³ /day and recycled back to process. Spent lees will be treated through Reverse Osmosis (RO). RO permeate will be recycled back to process. RO rejects will be treated in the effluent treatment plant (ETP) of Sugar plant. No effluent will be discharged outside the plant premises. Boiler ash will be sent to farm as soil conditioning. Fermented sludge will be used as cattle feed. Spent oil will be sold to authorized recyclers/re-processors. |

Subject: **Installation of Molasses based Distillery Plant (60 KLPD) alongwith CPP (2 MW) in the existing Sugar Plant (6500 TCD) alongwith Cogeneration Power Plant (22.5 MW) at Parts of Survey Nos. 125 to 134, 325 to 328, Village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka by M/s GEM Sugars Ltd. — Environmental Clearance reg.**

M/s GEM Sugars Ltd. has proposed for installation of Molasses based Distillery Plant (60 KLPD) alongwith CPP (2 MW) in the existing Sugar Plant (6500 TCD) alongwith Cogeneration Power Plant (22.5 MW) at Parts of Survey Nos. 125 to 134, 325 to 328, Village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka. Total plot area of the existing unit is 242.15 acres of which, the proposed distillery unit will be installed in 13 acres of land. Area earmarked for greenbelt is 75.78 acres. Total cost of project is Rs. 70 Crores. Ghataprabha River is flowing at a distance of 5.5 km. Almatti Reservoir is located at a distance of 1.6 Km. Reserve Forest is near Arakeri village at a distance of 0.5 KM. It is reported that no wildlife sanctuary/national park/elephant /tiger reserve is located within 10 Km distance from the project site. Distillery will be operated for 300 days. Bagasse will be used as fuel. In case of non-availability of bagasse, boiler will be operated on coal and coal will be obtained from E-auction.

2.0 Bagfilter alongwith stack of adequate height will be provided to spentwash fired boiler (22 TPH) to control particulate emissions within 50 mg/Nm³. Fresh water requirement from River Ghataprabha will be 643 m³/day for distillery and CPP. Spent wash generation will be 480 m³/day. Spent wash will be evaporated in multiple effect evaporator (MEE) and concentrated spent wash will be incinerated in the boiler. Condensate will be recovered at the tune of 409 m³/day and recycled back to process. Spent lees will be treated through Reverse Osmosis (RO). RO permeate will be recycled back to process. RO rejects will be treated in the effluent treatment plant (ETP) of Sugar plant. No effluent will be discharged outside the plant premises. Boiler ash will be sent to farm as soil conditioning. Fermented sludge will be used as cattle feed. Spent oil will be sold to authorized recyclers/re-processors.

3.0 Public hearing of the project was conducted by the Karnataka State Pollution Control Board on 29th October, 2013 (**F/PHR**). The issues raised during Public Hearing were regarding early payment of sugar cane price, greenbelt, to install latest pollution control equipments, Zero discharge etc. Accordingly, a specific condition at **S.N. xx** has been incorporated for satisfactory implementation of commitment made during public hearing in the **DFA**.

4.0 After detailed deliberations, the Expert Appraisal Committee (Industry) discussed Form1 and finalized the draft TOR in its 36th Meeting held during 11th-12th June, 2012 and suggested 'TORs' for incorporation in EIA/EMP report (**p. 178-182/c**). The suggested TORs have been incorporated in the final EIA/EMP report. The proposal was considered in the 18th EAC (I) meeting held during 28th to 30th April, 2014 and the Committee deferred the proposal for want of addl. information (**p. 341-342/c**). PP vide letter dated 15th October, 2014 has submitted the addl. information (p. 277/c). The project was reconsidered in the 28th EAC (I) meeting held during 1st – 2nd December, 2014 and the Committee recommended the proposal for the grant of environmental clearance subject to the specific conditions (**p.343-345/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)
12th January, 2015

AD(LB)

F. No. J-11011/93/2012-IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

E-mail aditya.narayan@nic.in
Telefax : 011: 2436 0549
Dated:18th June, 2014

To,

Shri K.Marimuthu, Executive Vice President
M/s GEM Sugars Limited
Hoodi Apartments, 120 Cunningham Road
Bengaluru -560 052 Karnataka

E-mail: gemsugars@yahoo.com ; Fax No.: 080-2238 - 5433

Subject: Expansion of existing Sugar Plant (6500 TCD with 22.5 MW CPP) by setting up Distillery Plant (60 KLPD) of M/s GEM Sugar Ltd. at Parts of Survey Nos. 125 to 134, 325 to 328, village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka (EC)

Ref. : Your letter no. GSL/KUNDARGI/MOEF/2013-14/01 dated 20th January, 2014

Sir,

Kindly refer to the above mentioned project which has been considered and discussed in the 18th Reconstituted Expert Appraisal Committee (Industry) Meeting held during 28th to 30th April 2014, wherein the Committee (Industry) desired to submit following additional information:

- 1 Copy of environmental clearance of the existing Sugar unit and Cogeneration power plant to be submitted (reasons, if not obtained).
- 2 Copy of Consent to establish issued by the SPCB for the existing unit.
- 3 Valid consent to operate issued by the SPCB for the existing unit.

Therefore, you are requested to submit the above information **to the Ministry** to enable us to facilitate further action on the matter.

The **proposal is deferred** till the desired information is submitted and will be reconsidered in the Expert Appraisal Committee (Industry) as and when information is submitted.

(A.N.Singh)
Deputy Director(S)

**MINUTES OF 18th RECONSTITUTED EXPERT APPRAISAL COMMITTEE
(INDUSTRY) HELD DURING 28TH APRIL 2014 TO 30TH APRIL 2014**

VENUE: Scope Complex, Core 6, 5th Floor, IOCL Conference Room, Ministry of Petroleum and Natural Gas, Lodhi Road, New Delhi 110 003

18.1 Opening Remarks of the Chairman

At the outset, Chairman welcomed the members of the Expert Appraisal Committee (Industry). Thereafter, agenda items were taken up for discussion. The deliberations held and decisions taken are as under.

18.2 Confirmation of the Minutes of the 17th Reconstituted Expert Appraisal Committee (Industry) held during 18-19th March 2014

The minutes of the 17th Reconstituted Expert Appraisal Committee (Industry) meeting held during 18-19th March 2014 were confirmed.

Monday, 28th April 2014

18.3 Environmental Clearance

18.7.7 Expansion of existing Sugar Plant (6500 TCD with 22.5 MW CPP) by setting up Distillery Plant (60 KLPD) of M/s GEM Sugar Ltd. at Parts of Survey Nos. 125 to 134, 325 to 328, village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka (EC)

The project proponent and their consultant (B S Envi-Tech (P) Ltd.) 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 36th Meeting of the Expert Appraisal Committee (Industry) held during 11th to 12th June, 2012 for preparation of EIA-EMP report. All the molasses based Distillery Units are listed at S.N. 5(g) under Category 'A' and appraised at the Central level.

M/s GEM Sugar Ltd has proposed for setting up of Molasses based Distillery Plant (60 KLPD) & CPP (2 MW) in the existing sugar plant (6500 TCD) along with Cogeneration Power Plant (22.5 MW) .at Parts of Survey Nos. 125 to 134, 325 to 328, Village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka. Total plot area of the existing unit is 242.15 acres of which, the proposed distillery unit will be installed in 13 acres of land. Existing Greenbelt Area is spread over an area of 75.78 acres. Total project cost is Rs. 70 Crores. Ghataprabha River is flowing at a distance of 5.5 km. Almatti Reservoir is located at a distance of 1.6 Km. Reserve Forest is near Arakeri village at 0.5 KM. It is reported that no wildlife sanctuary/national park/elephant /tiger reserve is located within 10 Km distance from the project site. Distillery will be operated for 300 days.

Ambient air quality monitoring was carried out at 6 locations March, 2011 –May, 2011 and submitted data indicates as PM10 (48.6–53 ug/m³), PM2.5 (21.8–26.0 ug/m³), SO₂ (7.8 – 9.6 ug/m³) and Nox (9.5-11.4 ug/m³). Predicted value of ground level concentration due to proposed project is PM10 (1.137 ug/m³), SO₂ (9.19 ug/m³) and Nox (3.41 ug/m³). The resultant concentrations are within the NAAQS. Wet scrubber will be provided to coal/bagasse/concentrated spent wash fired incineration boiler (22 TPH). However, the Committee insisted for installing bagfilter instead of wet scrubber. Fresh water requirement from River Ghataprabha will be 643 m³/day for distillery and CPP. Spent wash generation will be 480 m³/day. Spent wash will be evaporated in MEE and concentrated spent wash will be incinerated in the boiler. Condensate will be recovered at the tune of 409 m³/day. Spent lees will be treated through RO. RP permeate will be recycled back to process. RO rejects will be treated in ETP of Sugar plant. No effluent will be discharged outside the plant

premises. Boiler ash will be sent to farm as soil conditioning. Fermented sludge will be used as cattle feed.

The Committee deliberated upon the issues raised during the Public Hearing / Public Consultation meeting conducted by the Karnataka State Pollution Control Board on 29th October, 2013 under the Chairmanship of Dy. Commissioner. The issues raised during Public Hearing were regarding early payment of sugar cane price, greenbelt, to install latest pollution control equipments, Zero discharge etc. Public Hearing issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.

After deliberations, the Committee desired following additional information:

- 1 Copy of environmental clearance of the existing Sugar unit and Cogeneration power plant to be submitted (reasons, if not obtained).
- 2 Copy of Consent to establish issued by the SPCB for the existing unit.
- 3 Valid consent to operate issued by the SPCB for the existing unit.

The proposal is deferred till the desired information is submitted. The above information shall be provided with the uploading of minutes on the website.

F. No. J-11011/93/2012-IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

E-mail : tchand2003@yahoo.co.uk
Telefax : 011: 2436 0108
Dated: 15th April, 2014

To,

Shri K.Marimuthu, Executive Vice President
M/s GEM Sugars Limited
Hoodi Apartments, 120 Cunningham Road
Bengaluru -560 052 Karnataka

E-mail: gemsugars@yahoo.com ; Fax No.: 080-2238 - 5433

Subject: Expansion of existing Sugar Plant (6500 TCD with 22.5 MW CPP) by setting up Distillery Plant (60 KLPD) at Parts of Survey Nos. 125 to 134, 325 to 328, village Kundargi, Taluka Bilagi, District Bagalkot, Karnataka by M/s GEM Sugar Ltd.

Ref. : Your letter no. GSL/KUNDARGI/MOEF/2013-14/01 dated 20th Januray, 2014

Sir,

The above proposal will be considered in the 18th Reconstituted Expert Appraisal Committee (Industry) on 29th April, 2014(11.30 AM)# (item no. 18.7.7) to be held at Scope Complex, Core 6, 5th Floor, IOCL Conference Room, Ministry of Petroleum and Natural Gas, Lodhi Road, New Delhi 110 003 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 (South), Ministry of Environment & Forests, Regional Office, Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034 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 tchand2003@yahoo.co.uk**

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

(Dr. Chandini)
Director

**LIST OF MEMBERS OF THE EXPERT APPRAISAL COMMITTEE
(INDUSTRY)**

| | |
|--|-----------------|
| <p>SHRI M RAMAN 3/686, Cauvery Nagar, Kuppam Road Kottivakkam Chennai – 60041</p> <p>e-mail : raman16@hotmail.com</p> | Chairman |
| <p>DR. R K GARG Vice-Chairman, Expert Appraisal Committee (I) 4, Vikram Jyoti Co-Operative Society , Opp. Telecom Factory, Deonar, Mumbai - 400 088 Maharashtra E mail gargnk@gmail.com</p> <p>Member</p> | Member |
| <p>DR. B SENGUPTA Former Member Secretary, CPCB, Member, Expert Appraisal Committee (I) 16 161, Medha Apartment, Mayur Vihar, Phase-I, Delhi-91 E-mail: bsg161@gmail.com</p> | Member |
| <p>SHRI RAJAT ROY CHOUDHARY 12/37, Karpagam Avenue, 1st street R.A. Puram, Chennai - 600028</p> <p>E mail: rajatrc@gmail.com</p> <p>E mail: rajatrc@gmail.com</p> | Member |
| <p>DR. S.D. ATTRI, DIRECTOR Environment Monitoring and Research Centre India Meteorological Department, New Delhi – 110003 E-mail: sdattri@yahoo.com</p> | Member |
| <p>SHRI NIRANJAN RAGHUNATH RAJE Member, Expert Appraisal Committee (I) A-648, Sushant Lok-1 Gurgaon – 122 002 Haryana</p> <p>E-mail: n_raje@yahoo.com</p> | Member |
| <p>DR. ANTONY GNANAMUTHU Old No. 53 and New No. 103, Padmanabha Nagar Adya, Chennai, Tamil Nadu E-mail: antony.gnanamuthu2012@gmail.com</p> | Member |
| <p>DR. S.K.DAVE A/1, Nanalal Park, Opp. Ideal Colony, Jai Hind Char Rasta, Maninagar Ahmedabad-380 008 Gujarat. E mail : dr_skd@rediffmail.com / dave.sudhir@rediffmail.com</p> | Member |
| <p>DR. R.M. MATHUR, Director, Central Pulp and Paper Institute, Paper Mill Road, P.B.No.174, Saharanpur-247 001. Uttar Pradesh. E-mail: rmm_cppri@rediffmail.com</p> | Member |
| <p>PROF. C.S. DUBEY Department of Geology Delhi University</p> | Member |

| | |
|---|------------------|
| Delhi-110 007 E-mail: dubeygeo@gmail.com / csdubey@yahoo.com | |
| PROF. R.C. GUPTA Former Head Department of Metallurgical Engineering (A Centre of Advanced Study) <i>House No. P 1/9, Lane 15, Ravindrapuri Colony , Durgakund, Varanasi-221005</i> E-mail: rcgupta.bhu@gmail.com | Member |
| DR. PREM SHANKAR DUBEY Member ,EAC (I) 86, Mahasweta Nagar, Ujjain – 456 010. Madhya Pradesh E-mail: preshdubey@sify.com | Member |
| Dr. T.Chandini Director, MoEF E-mail : tchand2003@yahoo.co.uk Telefax : 011: 2436 0108 | Member Secretary |

