

F. No.J-11011/236/2017-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division

Indira Paryavaran Bhawan
Jor bagh Road, New Delhi - 3
Dated: 17th June, 2019

To,

M/s Harsha Sugars Ltd,
Sy.No 411/1, 411/2, 411/3, 412& 413/1,
Village Saundatti, Taluk Saundatti,
District **Belgaum** (Karnataka)

Sub: Expansion of Sugar Plant, co-generation power plant and setting up molasses based distillery by M/s Harsha Sugars Ltd at Village & Taluk Saundatti, District Belgaum (Karnataka) - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No.IA/KA/IND2/64689/2017 dated 12th November, 2018 for environmental clearance to the above project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of sugar plant from 4500 TCD to 7500 TCD, co-generation power plant from 14 MW to 33 MW, and setting up molasses based distillery of 60 KLPD by M/s Harsha Sugars Ltd in an area of 51.3 acres located at Sy.No.411/1, 411/2, 411/3, 412 & 413/1, Village & Taluk Saundatti, District Belgaum (Karnataka).

3. The details of existing and proposed products are as under:-

S. No.	Product	Existing	Proposed	Total
1	Sugar	540 TPD (from 4500 TCD sugarcane crushing)	360 TPD (from 3,000 TCD sugarcane crushing)	900TPD (from 7,500 TCD sugarcane crushing)
2	Power	14 MW/hr	16MW/Hr	30MW/Hr +3 MW from incineration boiler
3	RS/Ethanol/ ENA	--	60 KLPD	60 KLPD

4. Existing land area is 51.3 acres, and proposed expansion will be carried out within the existing premises. Green belt will be developed in 33% i.e.17 acres out of the total project area. Total project cost is estimated to be Rs.307.32 crores, including existing investment of Rs.245 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.9.39 crores and the recurring cost (O&M) will be about Rs.87.73 Lakhs per annum. Total employment generation will be 100-110 persons as direct and 200 persons indirect after expansion.

5. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves and Wildlife Corridors etc. within 10 km from the project site. A Reservoir is at 5 km in North.

6. Total fresh water requirement is estimated to be 748 cum/day (during season) for sugar and co-gen & Distillery and 1297 cum/day (during off season) for co-gen & distillery proposed to be met from Malaprabha River. The necessary permission in this regard has been obtained from Water Resource department, Karnataka on 18th February, 2019 for withdrawal of fresh water of 3000 cum/day.

During season, effluent generation will be 739 cum/day and 619 cum/day during off-season. Effluent will be treated through ETP capacity 1000 cum/day. Effluent (Condensate, spent lees, boiler and cooling tower blowdown, washing, reject) of 586 cum/day from distillery section will be treated through CPU. Spent wash will be concentrated and used as fuel in the incineration boiler. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Existing unit has 140 TPH bagasse fired boiler. No additional boiler will be required for expansion project. For proposed distillery unit 22 TPH 60% concentrated spent wash and 40% Bagasse fired boiler will be installed with ESP and stack height of 70 m will be provided to control the particulate emissions within statutory limit of 115mg/Nm³.

7. The project/activity is covered under category A of item 5 (g) 'Distilleries' and category B of item 1 (d) 'Thermal Power Plants' and 5(j) 'Sugar industry' of the schedule to the EIA Notification, 2006 and requires appraisal/approval at central level in the Ministry.

8. The Terms of Reference for the project was granted on 19th July, 2017. Public hearing was conducted by the Karnataka State Pollution Control Board on 18th July 2018.

9. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 8-9 April, 2019, wherein the project proponent and their accredited consultant presented the EIA/EMP report. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.

10. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **expansion of sugar plant from 4500 TCD to 7500 TCD, cogeneration power plant from 14 MW to 33 MW, and setting up molasses based distillery of 60 KLPD by M/s Harsha Sugars Ltd** located at Sy.No.411/1, 411/2, 411/3, 412 & 413/1, Village & Taluk Saundatti, District Belgaum (Karnataka), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

(a) Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board as required.

(b) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

(c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

- (d) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (e) Total fresh water requirement shall not exceed 748 cum/day (during season) and 1297 cum/day (during off season) proposed to be met from Malaprabha River. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- (f) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- (g) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (h) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- (i) The company shall undertake waste minimization measures as below:-
- (i) Metering and control of quantities of active ingredients to minimize waste.
 - (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - (iii) Use of automated filling to minimize spillage.
 - (iv) Use of Close Feed system into batch reactors.
 - (v) Venting equipment through vapour recovery system.
 - (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (j) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (k) All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.
- (l) At least 2% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (m) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (n) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (o) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (p) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

(q) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

(r) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

(s) CO₂ generated from the process shall be bottled/made solid ice and sold to authorized vendors.

10.1 The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

(i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or 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 each 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 complied with.

(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 to recharge ground water, and to utilize the same for different industrial operations within the plant.

(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.

(viii) The company shall 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 shall be implemented.

(ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers,

administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.

(x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

(xi) 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.

(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

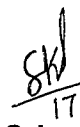
(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

(xiv) 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&CC by e-mail.

(xv) 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.


11. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

12. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991, read with subsequent amendments therein.


17/6/2019
(S. K. Srivastava)
Scientist E

Copy to:-

1. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wing, 17th Main Road, Koramangala II Block, **Bangalore** - 34
2. The Secretary (Environment and Ecology), Department of Forest, Environment & Ecology, Room No.708, Gate 2, Multi Storied Building, Dr. Ambedkar Veedhi , **Bangalore** -1
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhawan, No. 49, 4th& 5thFloor, Church Street, **Bangalore** -1
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, **New Delhi**-3
6. Guard File/Monitoring File/Record File.


17/6/2019
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