

ENVIRONMENTAL
CLEARANCE



Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), Karnataka)

To,

The Chairman and Managing Director
M/S. SHRI PRABHULINGESHWAR SUGARS AND CHEMICALS LIMITED
Shri Prabhulingeshwar Sugars and Chemicals Limited, Siddapur village,
Jamakhandi Taluk, Bagalkot District, Karnataka -587301

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the SEIAA vide proposal number
SIA/KA/IND2/33004/2006 dated 04 Aug 2021. The particulars of the environmental
clearance granted to the project are as below.

- | | |
|-----------------------------------------------|------------------------------------------------------------|
| 1. EC Identification No. | EC22B025KA196030 |
| 2. File No. | SEIAA 21 IND 2019 |
| 3. Project Type | Expansion |
| 4. Category | B1 |
| 5. Project/Activity including
Schedule No. | 5(j) Sugar Industry |
| 6. Name of Project | M/s Shri Prabhulingeshwar Sugars &
chemicals Ltd., |
| 7. Name of Company/Organization | M/S. SHRI PRABHULINGESHWAR
SUGARS AND CHEMICALS LIMITED |
| 8. Location of Project | Karnataka |
| 9. TOR Date | 09 Jan 2007 |

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 22/04/2022

(e-signed)
Sri Vijay Mohan Raj V.,IFS
Member Secretary
SEIAA - (Karnataka)

*Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH. Please quote identification
number in all future correspondence.*

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सत्यमेव जयते

State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 21 IND 2019

To,

Shri Jagadeesh S. Gudagunti,
Chairman and Managing Director,
M/s. Shri Prabhulingeshwar Sugars and Chemicals Limited,
Siddapur Village,
Jamakhandi Taluk, Bagalkot District,

Sir,

Sub: Proposed Expansion of Sugarcane crushing & co-generation power plant project at Sy. Nos. 49/2B/1, 49/2B2, 87, 101/1+2/3, 99/1B, 99/2, 100/1, 100/2, 104/2A, 104/1, 104/2B, 271/4, 365/4, 95/2B, 96/2, 98/1B, 98/2, 93/3B, 108/2C, 109/2B, 112/1B, 112/2A, 113/1C, 117/1A/3, 117/1B/3, 117/2C, 108/2D, 107/3 and part of Siddapur Village, Jamakhandi Taluk, Bagalkote District by M/s. Shri Prabhulingeshwara Sugars & Chemicals Ltd – Issue of Environmental Clearance – Reg.

This has reference to your online application dated 9th May 2019 bearing proposal No. SIA/KA/IND2/35980/2019 and EIA Report bearing Proposal No. SIA/KA/IND2/33004/2006 dated 4th August 2021 addressed to SEIAA, Karnataka and subsequent letters addressed to SEIAA/SEAC Karnataka furnishing further information/seeking prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of the provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Application in Form 1, pre-feasibility report, EIA study report for proposed Expansion of sugar crushing and cogeneration Power plant project and the additional clarifications furnished in response to the observations of the SEIAA and SEAC, Karnataka.

2. It is inter-alia, noted that M/s. Shri Prabhulingeshwar Sugars and Chemicals Ltd., have been issued with the Environmental Clearance vide letter No. SEIAA 20 IND 2007 dated 17th September 2008 for Expansion of Sugarcane crushing capacity from 3500 TCD to 8500 TCD and Co-generation capacity from 17.5 MW to 40 MW. The total water requirement was 6623 m³/day.

3. It is inter-alia, noted that M/s. Shri Prabhulingeshwar Sugars and Chemicals Ltd. have Proposed for Expansion of the sugarcane crushing capacity from 8,500 TCD to 12,000 TCD and Co-gen power plant capacity from 40 MWH to 55.5 MWH. The total land area of the project is 181-20 Acres, Industry will be developed greenbelt in an area of 60-18 Acres i.e. 33 % out of total area of the project site. The estimated project cost is Rs. 166.60 Crores.

The total water requirement for the proposed project is 6623 KLD (including recycled water – 5520 KLD), and it will be met from the Krishna River. The wastewater generation will be 5013 KLD (including domestic sewage – 90 KLD). The effluents will be treated in existing sugar plant ETP comprises of anaerobic digester followed by EASP for existing effluent hydraulic load of 1250 KLD. To augment the generation of additional effluent load of 550 KLD additional clarifier and bio-digester on UASB principle is provided in parallel. Cooling tower bleed shall be Treated in CPU of 2600 KLD capacity and treated water is reused in sugar process. 1965 KLD of excess condensate from sugar process and out of which 500 KLD shall be reused in Co-gen Cooling tower without any treatment. Remaining 1465 KLD shall be treated in CPU of 2600 KLD capacity. Treated water of 700 KLD & 90 KLD shall be reused in RO Plant & sugar plant respectively. CPU reject of 675 KLD, RO Reject 400 KLD and co-gen cooling tower bleed 100 KLD to be treated in Polishing pond of 1200 KLD capacity and treated water is used for irrigation & greenbelt development. Domestic sewage to be treated in septic tank and overflow connect to sugar plant ETP. Power requirement is 17.778 MW and will be met through in house co-generation power plant.

It is proposed to install DG set of 1 No X 1000 KVA in additional to the existing DG set of 2 X 500 KVA, 1 No X 250 KVA and 1 No. X 125 KVA, capacity and it shall be used as standby during the power failure. The industry unit shall have 2 No's X 60 TPH and 1 No X 135 TPH Boiler.

Stack no	Source of Air pollution		Type of fuel	Chimney Height (m) -APC system provided/ proposed
	Existing	Proposed		
Boilers Stack Details				
1	50 TPH Boiler	Upgraded to 60 TPH	Bagasse	Chimney of 54 m AGL with ESP
2	120 TPH Boiler	Upgraded to 135 TPH		Common Chimney of 74 m AGL with separate ESP
	50 TPH Boiler	Upgraded to 60 TPH		
DG Set Details				
1	500 kVA	-	HSD	Separate chimney of 7m ARL with Acoustic Enclosures
2	500 kVA			Chimney of 5m ARL with Acoustic Enclosures
3	250 kVA			
4	125 kVA			Chimney of 30m ARL with Acoustic Enclosures
5	-	1000 kVA		

4. The project proposal was considered by SEAC during the meeting held on 10th July 2019 and got recommended for issue of ToR. The SEIAA considered the proposal during the meeting held on 31st July 2019 and decided to issue ToR for conducting EIA study accordingly ToR was issued on 16.09.2019 for conducting Environment Impact

Assessment (EIA) study in accordance with EIA notification 2006. The EIA has been conducted by SAMRAKSHAN, F- 4, I Floor, Swastik Manandi Arcade, S C Road, Sheshadripuram, Bangalore - 560 020 who have been accredited from NABET vide certificate No: NABET /EIA/1922/IA0051. The EIA report was submitted on 24.08.2021.

5. Based on the information submitted by you and presentation made by Environmental consultant, M/s. Samrakshan, F-4, I Floor, Swastik Manandi Arcade, S C Road, Sheshadripuram, Bengaluru – 560 020, the State Level Expert Appraisal Committee (SEAC) examined the proposal in the meeting held on 4th October 2021 and has recommended for issue of Environmental Clearance.

6. The SEIAA Karnataka after due consideration of the relevant documents submitted by the project proponent, additional clarifications furnished in response to its observations and the recommendation of the SEAC have in its meeting held on 29th March 2022 in accordance with the provisions of Environmental Impact Assessment Notification-2006 and its subsequent amendments and decided to accord Environmental Clearance under the provisions of Environmental Impact Assessment Notification-2006 and its subsequent amendments, subject to strict compliance of the following terms and conditions:

I. Statutory compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. 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.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions. (Case to case basis small plants: Manual; Large plants: Continuous)
- iii. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF & CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- v. 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.
- vi. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
- viii. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

III. Water quality monitoring and preservation

- i. 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 (applicable in case of the projects achieving ZLD) and connected to SPCB and CPCB online servers.
- ii. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.

- iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- v. The sugar plant effluents shall be treated in existing sugar plant ETP comprises of anaerobic digester followed by EASP for existing effluent hydraulic load of 1250 KLD. To augment the generation of additional effluent load of 550 KLD additional clarifier and bio-digester on UASB principle to be provided in parallel. Cooling tower bleed shall be Treated in CPU and treated water is reused in sugar process. Excess condensate from sugar process partly reused in Co-gen Cooling tower without any treatment and remaining shall be treated in CPU. Treated water shall be reused in RO Plant & sugar plant. CPU reject, RO Reject and co-gen cooling tower bleed to be treated in Polishing pond and treated water is used for irrigation & greenbelt development.
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

IV. Noise monitoring and prevention

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. 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.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

V. Energy Conservation measures

- i. The energy sources for lighting purposes shall preferably be LED based.

VI. Waste management

- i. 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.
- ii. Impervious tank form to be provided for storage of molasses to avoid accidental spillage from reaching soil. Used oil to be stored in secured manner in drums before disposal as per authorization.

VII. Green Belt

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant

VIII. Safety, Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. 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.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. 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

IX. Corporate Environment Responsibility

- i. The Project Proponent shall comply with provision contained in OM vide F.No. 22-65/2017-IA.III Dated 20th October 2020, of the Ministry of Environment, Forest and Climate Change as applicable, regarding Corporate Environment Responsibility and shall execute the action plan of Infrastructure development for Drinking water and Sanitation, Infrastructure development for education, Scientific support and awareness to local farmers to increase yield of crops and fodder and Avenue plantation in community areas, as submitted vide letter dated 19.04.2022.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholder's / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of

action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous

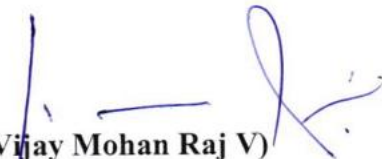
- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent 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, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Additional Condition:

1. The proponent shall carryout analysis and record the characteristics of the USB digester sludge for its microbial activity on annual basis to correlate its performance and assess its efficiency.
2. The project proponent shall undertake a bench scale study for extraction of wax from press mud and later on use the findings of the bench scale study for pilot plant adaptation.

Yours Faithfully,


(Vijay Mohan Raj V)
Member Secretary,
SEIAA.

29/04/22

Copy to:

- 1) The Secretary, Ministry of Environment & Forests, Government of India, Paryavaran Bhavan, CGO Complex, Lodi Road, New Delhi-110003.
- 2) The Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 3) The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, 5th Floor, E & F wings, 17th Main Road, Koramangala II Block, Bangalore-560 034, Bangalore.
- 4) Guard File.