



सत्यमेव जयते

भारत सरकार  
Government of India

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय  
Ministry of Environment, Forest & Climate Change  
एकीकृत क्षेत्रीय कार्यालय, बंगलुरु - 560 034  
Integrated Regional Office, Bangalore - 560 034



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Dated: 19<sup>th</sup> October, 2022

F. No. EP/12.1/604/Karnataka/ 824

To

**The Additional Director**

IA Division (Industry - II)

Ministry of Environment, Forest & Climate Change

Indira Paryavaran Bhawan

Jorbagh Road, New Delhi - 110 003.

**Subject: Expansion of Sugar Mill Capacity from 5000 TCD to 11,000 TCD, Modernization and expansion of distillery capacity from 54 KLPD to 84 KLPD and expansion of Co-generation capacity from 41 MW to 52 MW and establishment of 30 KLPD ENA/Ethanol plant at Sankeshwar, Belgaum District in Karnataka by M/s. Hiranyakeshi Sahakari Sakkare Karkhane Niyamit - reg.**

**Ref:** 1. J-11011/54/2009-IA II(I) dated 09.04.2009.  
2. Project letter dated 7<sup>th</sup> July, 2022.


Sir,

This has reference to subject matter. Project vide letter dated 7<sup>th</sup> July, 2022 submitted a request for the issuance of certified compliance report for the expansion of distillery and sugar cane crushing capacity. Accordingly, monitoring of the project was carried out on 21<sup>st</sup> July, 2022 and the additional documents/information sought during the site visit were submitted by the PA on 14<sup>th</sup> October, 2022. Based on the physical observation and records made available, detailed compliance status to different conditions of the environmental clearance status report is prepared and a copy enclosed herewith.

This issues with the approval of Competent Authority.

Yours faithfully

Encl: as above

  
(Dr. S. Prabhu)

Scientist 'D'/Joint Director (S)

Copy to:

1. The Additional Director, Monitoring Cell, IA Division, Indira Paryavaran Bhawan, MoEF&CC, New Delhi - 110 003 - for information.
2. The IGF, ROHQ, Indira Paryavaran Bhawan, MoEF&CC, New Delhi - 110 003 - for information.
3. Mr. S.R. Karkinnaik, Managing Director, M/s. Hiranyakeshi Sahakari Sakkare Karkhane Niyamit, Sankeshwar Post, Belgaum District, Karnataka - 591 314 - **To submit action taken report along with supporting documents & photographs to Ministry and this office.**

  
(Dr. S. Prabhu)

Scientist 'D'/Joint Director (S)

**GOVERNMENT OMNDIA**  
**Ministry of Environment Forest and Climate Change**  
**Integrated Regional Office**  
**Bangalore-34**  
**MONITORING REPORT**  
**PART 1**

F. No. EP/12.1/604/Karnataka/

|                                       |  |
|---------------------------------------|--|
| 1. Name of the project                | Expansion of Sugar Mill Capacity from 5000 TCD to 11,000 TCD, Modernization and expansion of distillery capacity from 54 KLPD to 84 KLPD and expansion of Co-generation capacity from 41 MW to 52 MW and establishment of 30 KLPD ENA/Ethanol plant at Sankeshwar, Belgaum District in Karnataka by M/s. Hiranyakeshi Sahakari Sakkare Karkhane Niyamit. |
| 2. Clearance No.                      | 1. J-11011/54/2009-IA II(I) dated 09.04.2009.  |
| 3. Location: District & State / UT    | Sankeshwar, Belgaum District, Karnataka.   |
| 4. Address for correspondence:        | <b>Mr. S.R. Karkinnaik,</b><br>Managing Director,<br>M/s. Hiranyakeshi Sahakari Sakkare Karkhane Niyamit,<br>Sankeshwar Post,<br>Belgaum District, Karnataka - 591 314.  |
| 5. Date of site visit for this report | 21.07.2022   |
| 6. Date of previous visit(s) if any   | 20.05.2010, 18.01.2012 and 23.01.2020  |

**7. Brief on the project along with the present status:** The project was monitored on 21<sup>st</sup> July, 2022 by this office. Mr. Ajit Chate - Env. officer, Mr. M. R. Patil – Chief Chemist (Distillery), Dr. B. Subbarao – Environment Consultant and other staffs of the project were present during the inspection. The Additional documents/information sought during the site visit were submitted by the PA on 14<sup>th</sup> October, 2022.

i. **Environment Clearance:** Initially, the project was established in the year 1961 with crushing capacity of 1250 TCD. Thereafter, PA has expanded 5000 TCD Sugarcane crushing capacity. EC obtained from Ministry vide No. J-13011/6/2006-IA II(I) dated 25.07.2006 for 41MW co-generation unit. Subsequently, PA has obtained EC from Ministry vide letter J-11011/54/2009-IA II(I) dated 9<sup>th</sup> April, 2009 for Expansion of Sugar Mill Capacity from 5000 TCD to 11,000 TCD, Modernization and expansion of distillery capacity from 54 KLPD to 84 KLPD and expansion of Co-generation capacity from 41 MW to 52 MW and establishment of 30 KLPD ENA/Ethanol plant.

During the visit, PA informed that the management has expanded sugarcane crushing capacity from 5000 TCD to 8000 TCD and co-generation capacity from 41MW to 52 MW and remaining activities are yet to be established (Modernization and expansion of distillery capacity from 54 KLPD to 84 KLPD and establishment of 30 KLPD ENA / Ethanol plant).

  
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- ii. **Consent for operation:** PA has obtained Consent for operation from KSPCB Vide No AW-332708 / PCBID 12690 dated 8<sup>th</sup> August, 2022 which is valid till 30<sup>th</sup> June, 2023 for discharge of effluents under the Water (Prevention and Control of Pollution) Act 1974 and Emissions under the Air (Prevention and Control of Pollution) Act 1981.
- iii. **Environmental Safeguards:** During the visit, it is observed that the Sugar, Co-gen and distillery plants are not in operation stage as crushing season completed in April, 2022. Further, it was noted from the visit as well as from the records that PA has taken several steps for environmental safeguards, as follows:
1. **Air Pollution Control:** During the visit, it was noted that PA has installed High efficiency ESP for controlling the stack emission from the 2x100 TPH co-generation boiler followed by stack of 85 M and ESP for controlling the stack emission from for 20 TPH distillery boiler followed by stack of 47 M. As per the latest report, stack emissions are well within the prescribed limits. It was noted that PA has monitoring three stations (ETP Plant, Factory Main gate and IB Hall) for ambient air quality identified in consultation with KSPCB officers in the downwind direction, as well as where maximum ground level concentration of SPM, SO<sub>2</sub>, Nox, are anticipated. Regular monthly monitoring is being carried out and the reports are submitted to KSPCB and this office. As per the latest Ambient Air Quality Monitoring report all the parameters are within permissible limits. It was noted that PA has provided acoustic enclosures for 750 KVA DG set.
  2. **Wastewater Management:** During the visit, it was noted that Effluent Treatment Plant (800 KLD capacity) in under maintenance stage. Based on the records, around 540 KL/day of spent wash was generated from this unit during 2020-21. They are carrying out bio-composting of their spent wash along with press mud & boiler ash. Thus, PA has ensured that all the effluents are consumed within the premises and there is no discharge of effluent outside the factory premises. Based on the records, the treated Sugar & Co-generation effluents are used for green belt development. It was noted that online water analyzer (pH, TSS, COD, BOD) installed at the outlet of the effluent treatment plant and connected to KSPCB and CPCB server. Further, PA has monitored regularly through third party laboratory and submitted the analysis reports to this office and KSPCB/CPCB. As per the latest monitoring reports, the parameters are within the prescribed limits. It was noted that domestic effluent is disposed in soak pits.
  3. **Solid Waste Management:** Based on the records, about 2,11,313 MT of press mud and 3265 MT of fly ash were generated and bio-composting with spent wash, same were given to farmers on free of cost or subsidy cost. No storage has been seen on the day of inspection.
  4. **Green Belt development:** Based on the records, total plot area is 81.15 Ha. Out of 81.15 Ha, PA has developed greenbelt about 16.2 Ha (40 acres) where under 24,000 Nos. of trees are planted in industrial premises, around bagasse yard, water tank, administration building, avenue plantation, shelter belt plantation which include trees like *Tectona grandis*, *Ficus recemosa*, *Terminalia elliptica*, *Pongamia pinnata*, *Delonix regia*, *Azadirachta indica*, *Acacia sp*, *Manilkara zapota*, *Sesbania grandiflora* (Shewarie), *Terminalia catappa*, *Polyalthia longifolia* (Ashok), *Conocarpous sp.*, *Silver oak*, *Cassia fistula* etc. **Based on the documents submitted by PA and physical observation during the site visit, it was noted that PA has not achieved 33% of green belt development area.**



5. **Environment Management Cell:** Based on the documents, PA have a separate Environment Management cell with a person qualified in the field of Environmental and an environmental laboratory has been set up for the Environmental management & monitoring functions. As per the records, Rs 29 Crores of capital cost has been spent towards environment and pollution control measures so far. Rs 5.5 Crores for recurring cost.

**The following Non- compliances are observed during the visit:**

1. PA has not developed company website and not uploaded a copy of EC and compliance report with monitoring data - (Sp Conditions No – v & General condition No - x).
2. PA has not achieved 33% of green belt development area as per the EC conditions (Specific Conditions No – vii).

**General observation:** During the visit, it was noted that PA has not provided black top/ RCC for internal roads. PA has been advised to provided black top /RCC for roads.

During the visit, PA has informed that they are planning to expand the sugar cane crushing capacity from 8000 TCD to 11000 TCD and distillery capacity from 54 KLPD to 100KLPD to manufacture 100 KLPD RS/ 100 KLPD Ethanol based on C- Molasses/ B heavy – Molasses/Sugar Cane juice/Sugar syrup/Grains to produce Ethanol for meeting the National Demand of Bioethanol under the Ethanol Blending Program (EBP). As per the Ministry Notification vide No. S.O. 2339(E) dated 16<sup>th</sup> June, 2021 the project activity comes under category 'B2'. The PA has sought the certified compliance report from this office for the proposed expansion of the distillery and sugar cane crushing capacity. Accordingly, monitoring of the project was carried out.

Based on the physical observation and records made available, detailed compliance status to different conditions of the environmental clearance is given in this report.



Dr S. Prabhu  
Scientist "D"/ Joint Director (S)

## PART - II

Status of compliance to the Environmental clearance issued by the Ministry for Expansion of Sugar Mill Capacity from 5000 TCD to 11,000 TCD, Modernization and expansion of distillery capacity from 54 KLPD to 84 KLPD and expansion of Co-generation capacity from 41 MW to 52 MW and establishment of 30 KLPD ENA/Ethanol plant at Sankeshwar, Belgaum District in Karnataka by M/s. Hiranyakeshi Sahakari Sakkare Karkhane Niyamit issued vide Ref. J-11011/54/2009-IA II(I) dated 09.04.2009.

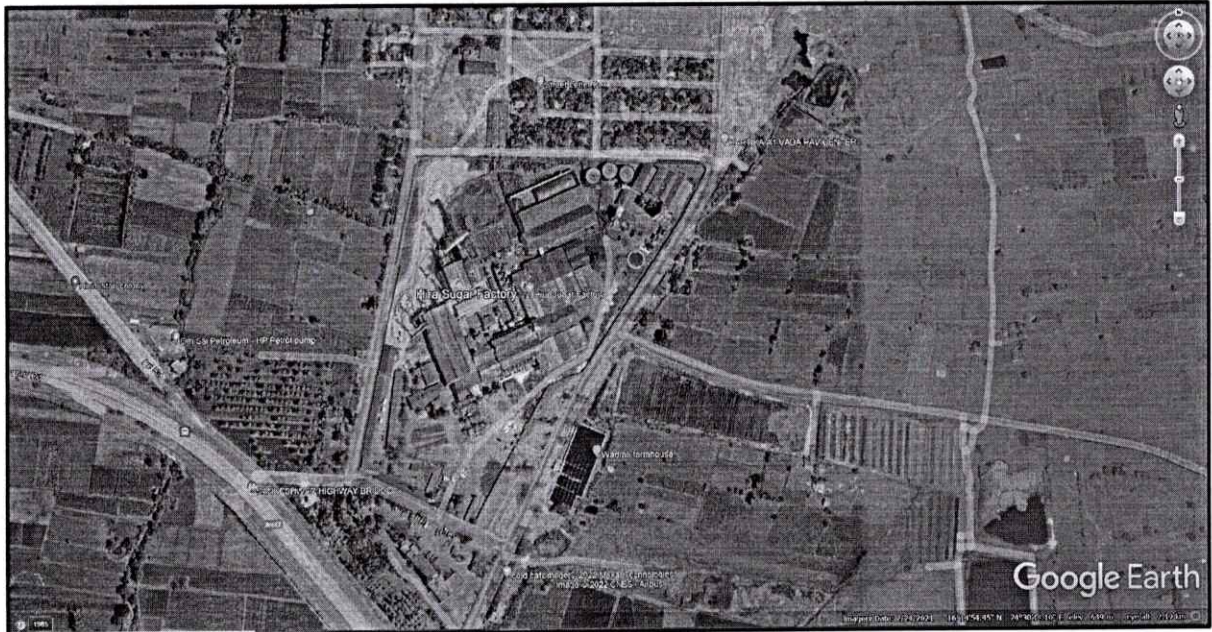
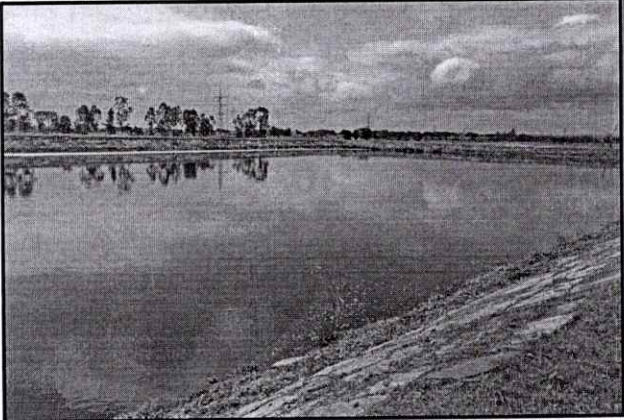


Fig 1. Google Earth Map at Project area.

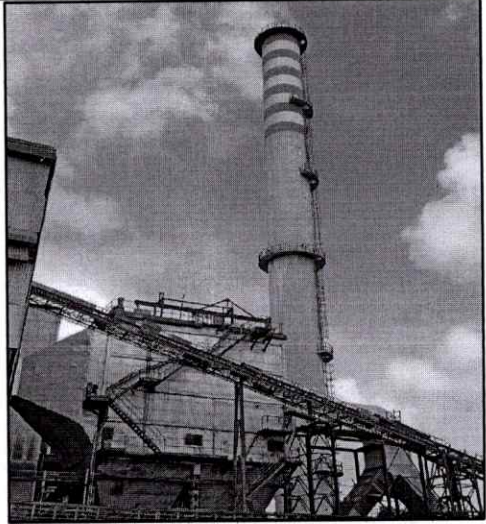


Fig. 2. Sugar plant of M/s. Hiranyakeshi Sahakari Sakkare Karkhane Niyamit, Sankeshwar.


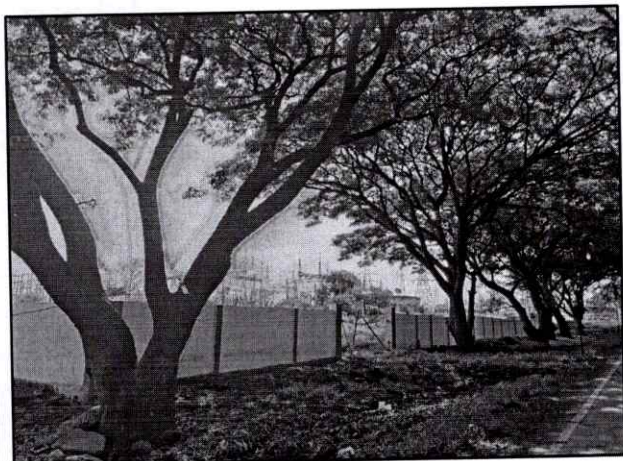
| Sl. No                        | Environmental Clearance   | Compliance  |
|-------------------------------|---|---|
| <b>A. SPECIFIC CONDITIONS</b> |   |   |
| i).                           | <p>The company shall adopt continuous fermentation technology and spent wash generation shall not exceed 760m<sup>3</sup>/day which after Bio-methanation followed by concentration shall be composted with press mud. Area of compost yard and storage of finished products shall be as per CPCB guidelines. The effluent from Sugar unit and co-generation power plant shall be used for irrigation after confirming to the present standards. The domestic effluent shall be disposed in soak fit.</p> | <p><b>During the visit, PA has informed that distillery expansion is yet to be taken place and not implemented continuous fermentation technology.</b> It was noted that the existing distillery is adopted batch type fermentation technology. Based on the records, around 540 KL/day of spent wash was generated from this unit during 2020-21. They are carrying out bio-composting of their spent wash along with press mud &amp; boiler ash. Thus, PA has ensured that all the effluents are consumed within the premises and there is no discharge of effluent outside the factory premises.</p> <p>During the visit, it was noted that PA has provided a canal around the compost yard. During the visit, it was noted that distillery is closed for monsoon season, it was informed that after closing their distillery unit during Monsoon, the generated spent wash was used for composting work in their compost yard.</p> <div data-bbox="821 1111 1455 1550" data-label="Image"> </div> <p data-bbox="1016 1541 1266 1581">Fig.3. Compost yard</p> <p>Based on the records, the treated Sugar &amp; Co-generation effluents are used for green belt development. It was noted that PA has monitored regularly through third party laboratory and submitted the analysis reports to this office and KSPCB/CPCB. As per the latest monitoring reports, the parameters are within the prescribed limits. Domestic effluent is disposed in soak pits.</p> |

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| ii)  | <p><i>The spent wash shall be stored in impervious pucca lagoons. The spentwash lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. As per the CPCB guidelines storage for the spent wash and treated effluent for sugar unit shall not exceed 15days capacity.</i></p>                                   | <p>Based on the records submitted by PA and during the visit, it was noted that, PA has provided two (2x2500 KLD) impervious pucca lagoons made with proper HDPE lining as per CPCB norms for storing the raw spent wash, it was informed that the spent wash will be used for bio digester within the 15 days storage capacity.</p>  <p>Fig.4. Spent wash lagoons at project area.</p> |
| iii) | <p><i>Adequate number of Ground water quantity monitoring stations by providing piezometers around the project area and compost yard shall be set up sampling and trend analysis shall be carried on a monthly basis and shall be submitted to the KSPCB and the Ministry.</i></p>  | <p>During the visit, it was noted that PA has installed six piezometers around the project area as well as on the downstream side of compost yard and storage lagoons. As per the latest ground water analysis report, no contamination has been noticed and the results are submitted to this office.</p>   |
| iv)  | <p><i>Particulate emissions from the 200TPH boilers shall be controlled by wet scrubber/ESP and emissions shall be dispersed through adequate stack height as per CPCB guidelines. The D.G. sets shall be provided with acoustic enclosure to mitigate the noise pollution and emissions shall be dispersed through adequate stack height as per CPCB guidelines.</i></p> | <p>During the visit, it was noted that PA has installed High efficiency ESP for controlling the stack emission from the 2x100 TPH co-generation boiler followed by stack of 85 M and ESP for controlling the stack emission from for 20 TPH distillery boiler followed by stack of 47 M. As per the latest report, stack emissions are well within the prescribed limits. It was noted that PA has provided acoustic enclosures for 750 KVA DG set.</p>                    |

*S. Pan*

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|      |   |  <p data-bbox="843 719 1397 752">Fig.5. Co-gen plant along with ESP and Stack.</p>  |
| v)   | <p><i>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 be simultaneously sent to the Regional office of the MOEF the respective Zonal office of the CPCB and the Karnataka State Pollution Control Board. The criteria pollutant levels namely. SPM, RSPM, So2, NOX (Ambient levels as well as stack emissions) or critical sectorial parameters shall be monitored and displayed at convenient location near the main gate of the company in the public domain.</i></p> | <p><b>PA has not developed website and not uploaded the status of compliance of the stipulated environmental clearance conditions, including results of monitored data.</b></p> <p>It was noted that PA has monitoring three stations for ambient air quality identified in consultation with KSPCB officers in the downwind direction, as well as where maximum ground level concentration of SPM, SO<sub>2</sub>, NO<sub>x</sub>, are anticipated. Regular monthly monitoring is being carried out and the reports are submitted to KSPCB and this office. As per the latest Ambient Air Quality Monitoring report all the parameters are within permissible limits and display board provided in main gate of the company.</p> |
| vi)  | <p><i>The company shall obtain permission from the state irrigation/ Ground water Department to draw water as may be applicable.</i></p>  | <p>Based on verification of records, it was noted that the PA has obtained permission for drawl of 150 mcf per year from Hiranyakeshi River for which they have received approval from Irrigation department Order No. SNV/ Belgaum/C.1/2014-15/3849 dated 19<sup>th</sup> July, 2014 and agreement copy submitted to this office.</p>  |
| vii) | <p><i>Green belt in 33% of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant and compost yard</i></p>   | <p>Based on the records, total plot area is 81.15 Ha. Out of 81.15 Ha, PA has developed greenbelt about 16.2 Ha (40 acres) where under 24,000 Nos. of trees are planted in industrial premises, around bagasse yard, water tank, administration building,</p>   |





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|       | <p>us as per the CPCB guidelines in consultation with the local DFO.</p>          | <p>avenue plantation, shelter belt plantation which include trees like <i>Tectona grandis</i>, <i>Ficus recemosa</i>, <i>Terminalia elliptica</i>, <i>Pongamia pinnata</i>, <i>Delonix regia</i>, <i>Azadirachta indica</i>, <i>Acacia sp</i>, <i>Manilkara zapota</i>, <i>Sesbania grandiflora</i> (Shewarie), <i>Terminalia catappa</i>, <i>Polyalthia longifolia</i> (Ashok), <i>Conocarpous sp.</i>, <i>Silver oak</i>, <i>Cassia fistula</i> etc.</p>   <p>Fig.6&amp;7. Green belt development at plant area.</p> <p><b>Based on the documents submitted by PA and physical observation during the site visit, it was noted that PA has not achieved 33% of green belt development area.</b></p> |
| viii) | <p>The company shall adopt rainwater harvesting to recharge the ground water.</p> | <p>During the visit, it was noted that PA has constructed a pond of capacity 1500 KLD for harvesting rainwater &amp; all the rainwater is collected and stored in that tank and same is being used for various purposes like greenbelt and dust suppression as and when required.</p>  |
| ix    | <p>Provision shall be made for the harvesting for the construction</p>            | <p>During the visit, no construction activities at project area.</p>   |



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|          | <i>labour within the site will all necessary infrastructure and facilities such as cooking, mobile toilets, safer drinking water, medical healthcare etc. The housing may be in the flour of temporary structure. All the construction wastes shall be managed so that there is no impact on the surrounding environment.</i>   | Based on the records, during the construction phase PA has provided necessary arrangements for construction workers like housing, toilets, safe drinking water etc.  |
| <b>B</b> | <b>General Conditions.</b>  |  |
| i)       | <i>No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of the Environment &amp; Forests.</i>   | PA is aware of this EC Condition.  |
| ii)      | <i>Ambient Air quality monitoring stations shall be set up in down wind direction as well as where maximum ground level concentration of SPM, NOX, So2 are anticipated in consultation with the State Pollution Control Board.</i>  | It was noted that PA has monitored three stations for ambient air quality identified in consultation with KSPCB officers in the downwind direction, as well as where maximum ground level concentration of SPM, SO2, Nox, are anticipated. Regular monthly monitoring is being carried out and the reports are submitted to KSPCB and this office. As per the latest Ambient Air Quality Monitoring report all the parameters are within permissible limits and enclosed as <b>Annexure- 1</b> . |
| iii)     | <i>Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the State Pollution Control Board. Regular monitory shall be carried out relevant parameters.</i>  | Based on the records, PA has monitored influent and effluent quality regularly at the stations identified in consultation with the KSPCB. It was noted that PA has installed online monitoring equipment at the outlet of ETP and connected to KSPCB/CPCB servers. It was noted that PA has installed six piezometers around the plant area.   |
| iv)      | <i>The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules are KSPCB whichever is more stringent. In case of process disturbance, the respective unit shall be shut down and shall not be restarted until the Control measures are rectified to achieve the desired efficiency.</i> | During the visit, it was noted that Effluent Treatment Plant (800 KLD capacity) in under maintenance stage. It was noted that online water analyzer (pH, TSS, COD, BOD) installed at the outlet of the effluent treatment plant and connected to KSPCB and CPCB server.  |



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|      |   |  <p>Fig.8. Effluent Treatment Plant (800 KLD capacity).</p> <p>PA has installed High efficiency ESP for controlling the stack emission from the 2x100 TPH co-generation boiler followed by stack of 85 M and ESP for controlling the stack emission from for 20 TPH distillery boiler followed by stack of 47 M.</p> <p>Based on the records, it was noted that PA has monitored regularly through third party laboratory and submitted the analysis reports to this office and KSPCB. As per the latest monitoring reports, the parameters are within the prescribed limits and enclosed as <b>Annexure- 2</b>.</p> |
| v)   | <p><i>The overall Noise leads shall be kept within the stipulated standards.</i></p>  | <p>It was noted that PA regularly monitored the overall noise levels from ten different locations around the plant i.e. weigh bridge, cane cutter, boiler house, sugar main gate, distillery main gate etc., The monitored results are found to be well within the standard limits and reports are submitting to this office regularly. A copy of report is enclosed as <b>Annexure- 3</b>.</p>  |
| vi)  | <p><i>The project proponent shall also comply with all the environmental protection measures/ safeguards recommended in the EIA/ EMP are public hearing report.</i></p> | <p>Based on the records, it was noted that PA has complied with the major recommendations of EIA/EMP such as installation of pollution abatement measures like ESP, Bag filters, ETP and piezometer, setting up of Environmental Management cell, development of green belt etc. Also, as per the suggestion made during the public hearing, PA has provided basic infrastructure such as water supply to nearby villages, renovation of schools, construction of bridges etc.</p>   |
| vii) | <p><i>Occupational health Surveillance program shall be undertaken as regular exercise for all employees. The first aid facilities shall be</i></p>                     | <p>During the visit, it was noted that the company have an occupation health center at their factory site. PA has informed that during the operation of the plant a doctor is available round the clock with</p>   |

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|       | <p><i>strengthened and the medical records of each Employee shall be maintained separately.</i></p>  | <p>required medicine to give first aid. PA has informed that annual medical check-up camps are conducting at plant premises and they maintained the register is available with the company doctor and workers health reports are submitted to this office.</p>  <p>Fig.9. Occupational health center at project area.</p>  |
| viii) | <p><i>A separate Environmental Management cell with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring function.</i></p>                       | <p>Based on the documents, PA have a separate Environment Management cell with a person qualified in the field of Environmental Chemistry and an environmental laboratory has been set up for the Environmental management &amp; monitoring functions.</p>   |
| ix)   | <p><i>The project authorities shall provide requisite funds for both recovering non-recurring expenditure to in prevent the conditions stipulated by the MOEF as well as the state Government.</i></p> | <p>As per the records, Rs 29 Crores of capital cost has been spent towards environment and pollution control measures so far. Rs 5.5 Crores for recurring cost.</p> <p>As intimated by the PA above fund was spent toward environment protection measures including installation of ESP, ETP, maintenance of roads, development of green belt etc., They reported environmental quality parameters were found to meet the standards.</p> <p>However, being a sugar, Co-gen plant and distillery plant the PA should ensure proper / regular implementation of environmental mitigation measures to upkeep the environment.</p> |
| x)    | <p><i>A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, zilla parishad,</i></p>  | <p>Based on the records, a copy of environmental clearance submitted to local panchayat.</p>   |

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|       | <i>Urban local body, local NGO, if any. The clearance letter also is put on the website of the company.</i>  | <b>It was noted that, PA has not developed the company web site and not uploaded the EC letter.</b>   |
| xi)   | <i>The implementation of the project vis-à-vis Environmental action plans will be monitored by the Regional office of the MOEF at Bangalore/KSPCB/CPCB.</i>  | PA is aware of this EC Condition.   |
| xii)  | <i>The Project proponent shall submit six monthly reports.</i>   | As per the records, PA has regularly submitted six monthly reports to this office.  |
| xiii) | <i>The project proponent shall inform the public that the project has been accorded environmental clearance and advertise in local newspaper.</i>  | Based on the records, PA has already advertised in newspapers about their environmental clearance and submitted copies of the Same to Ministry and this office. The details are below:<br>1. Prajawani Kannada daily - 27.05.2009.<br>2. Tarun Bharat - 27.05.2009. |
| xiv)  | <i>The project authorities shall inform the Regional office as well as the Ministry the date of financial approval of the project by the concerned authorities and the date of start of the project.</i> | Based on the records, the dated commencement of work is on April, 2008 and date of financial closure is 24.01.2007.   |

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**Dr. S. Prabhu**  
 Scientist "D"/ Joint Director (S)



Annexure - 1

# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.  
 Public Testing Laboratory  
 Recognised by Ministry of Environment Forest & Climate Change (MoEFCC):  
 Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024  
 ISO 9001 : 2015, ISO 45001:2018 Certified  
 CIN : U73100MH1995PTC092502  
 NABL Accreditation Certificate No. TC-5088 Valid upto 31.03.2022.

AIR-F-002

**TEST REPORT  
 AMBIENT AIR QUALITY MONITORING**

|                      |  |                 |                      |      |                         |
|----------------------|--|-----------------|----------------------|------|-------------------------|
| Report No.           | PAPL/A-107C/02-22                      | Report Date     | 21/02/2022           |      |                         |
| Work Order No.       | --                                     |                 |                      |      |                         |
| Name of Customer     | M/s. Shree Hiranyakeshi S.S.K. Niyamit |                 |                      |      |                         |
| Address              | Sankeshwar - 591 314, Dist- Belgaurn.  |                 |                      |      |                         |
| MoEF Certificate No. | S.O.3744(E) Sr. 49<br>dated 17.10.2019 | Valid up to     | 16/10/2024           |      |                         |
| Type of sampling     | AAQM                                   | 24 Hrs.         | √                    | WAQM | 24Hrs   --   24 Hr   -- |
| Instrument used      | RDS                                    | √               | FDS                  |      | √                       |
|                      | ID No.                                 | AIR-I-041       | ID No.               |      | AIR-I-013               |
|                      | Calibration Due Date                   | 07/05/2022      | Calibration Due Date |      | 12/03/2022              |
| Date of Sampling     | 12/02/2022                             | Sample Ref. No. | 507C/A-184C/02-22    |      |                         |
| Location of sampling | Near Compost Yard                      |                 |                      |      |                         |
| Sample Collected By  | Padmaja Aerobiologicals Pvt. Ltd.      |                 |                      |      |                         |

**POLLUTION PARAMETERS**

| Parameter                               | Result | Limit | Unit              | Method  |
|---|--------|-------|-------------------|---|
| Particulate Matter (PM <sub>2.5</sub> ) | 30     | 60    | µg/m <sup>3</sup> | Gravimetric method<br>(CPCB guidelines 2012, NAAQS Volume -I) |
| Particulate Matter (PM <sub>10</sub> )  | 71     | 100   | µg/m <sup>3</sup> | IS 5182(Part-23):2006,Reaffirmed-2017                         |
| Sulphur Dioxide (SO <sub>2</sub> )      | 12     | 80    | µg/m <sup>3</sup> | IS 5182(Part-02):2001,Reaffirmed-2017                         |
| Nitrogen Dioxide (NO <sub>2</sub> )     | 14     | 80    | µg/m <sup>3</sup> | IS 5182(Part-06):2006,Reaffirmed-2017                         |

|                     |      |    |                           |    |
|---------------------|------|----|---------------------------|----|
| Sampling conditions | Rain | No | Construction site near by | No |
|                     | Wind | No | Vehicular Activity        | No |

Remark: --

Note: This test report may not be produced in part or full, without the permission of this laboratory.  
 This test report refers only to the sample submitted for the testing.

*[Signature]*  
 Analyst

*[Signature]*  
 For Padmaja Aerobiologicals Pvt. Ltd.



# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.  
 Public Testing Laboratory  
 Recognised by Ministry of Environment Forest & Climate Change (MoEFCC);  
 Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024  
 ISO 9001 : 2015, ISO 45001:2018 Certified  
 CIN : U73100MH1995PTC092502  
 NABL Accreditation Certificate No. TC-5088 Valid upto 31.03.2022.

AIR-F-002

**TEST REPORT  
 AMBIENT AIR QUALITY MONITORING**

|                      |  |             |                 |                      |            |    |       |  |
|----------------------|--|-------------|-----------------|----------------------|------------|----|-------|--|
| Report No.           | PAPL/A-184D/02-22                      | Report Date | 21/02/2022      |                      |            |    |       |  |
| Work Order No.       | --                                     |             |                 |                      |            |    |       |  |
| Name of Customer     | M/s. Shree Hiranyakeshi S.S.K. Niyamit |             |                 |                      |            |    |       |  |
| Address              | Sankeshwar - 591 314, Dist- Belgaum.   |             |                 |                      |            |    |       |  |
| MoEF Certificate No. | S.O.3744(E) Sr. 49<br>dated 17.10.2019 |             |                 | Valid up to          | 16/10/2024 |    |       |  |
| Type of sampling     | AAQM                                   | 24 Hrs.     | √               | WAQM                 | 24Hrs      | -- | 24 Hr |  |
| Instrument used      | RDS                                    | √           |                 | FDS                  |            | √  |       |  |
|                      | ID No.                                 | AIR-I-044   |                 | ID No.               | AIR-I-010  |    |       |  |
|                      | Calibration Due Date                   | 16/03/2022  |                 | Calibration Due Date | 15/03/2022 |    |       |  |
| Date of Sampling     | 12/02/2022                             |             | Sample Ref. No. | 507D/A-184D/02-22    |            |    |       |  |
| Location of sampling | Near Sankeshwar IB Hall                |             |                 |                      |            |    |       |  |
| Sample Collected By  | Padmaja Aerobiologicals Pvt. Ltd.      |             |                 |                      |            |    |       |  |

**POLLUTION PARAMETERS**

| Parameter                               | Result | Limit | Unit              | Method  |
|---|--------|-------|-------------------|---|
| Particulate Matter (PM <sub>2.5</sub> ) | 29     | 60    | µg/m <sup>3</sup> | Gravimetric method<br>(CPCB guidelines 2012, NAAQS Volume -I) |
| Particulate Matter (PM <sub>10</sub> )  | 69     | 100   | µg/m <sup>3</sup> | IS 5182(Part-23):2006,Reaffirmed-2017                         |
| Sulphur Dioxide (SO <sub>2</sub> )      | 11     | 80    | µg/m <sup>3</sup> | IS 5182(Part-02):2001,Reaffirmed-2017                         |
| Nitrogen Dioxide (NO <sub>2</sub> )     | 14     | 80    | µg/m <sup>3</sup> | IS 5182(Part-06):2006,Reaffirmed-2017                         |

|                     |      |    |                           |    |
|---------------------|------|----|---------------------------|----|
| Sampling conditions | Rain | No | Construction site near by | No |
|                     | Wind | No | Vehicular Activity        | No |

Remark: --

Note: This test report may not be produced in part or full, without the permission of this laboratory.  
 This test report refers only to the sample submitted for the testing.

*[Signature]*  
 Analyst

*[Signature]*  
 For Padmaja Aerobiologicals Pvt. Ltd.

Annexure-2

**PAPL**

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest &amp; Climate Change (MoEFCC);

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, ISO 45001:2018 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.03.2022.

Serving for more than 35 years



We Ensure Quality

AIR-F-005

**CERTIFICATE OF ANALYSIS****ANALYSIS REPORT FOR STACK EMISSION**

|                     |  |
|---------------------|--|
| Report Ref. No.     | 507B/A-184B/02-22                      |
| Work Order No.      | --                                     |
| Report Date:-       | 21/02/2022                             |
| Name of Industry    | M/s. Shree Hiranyakeshi S.S.K. Niyamit |
| Address:            | Sankeshwar - 591 314, Dist- Belgaum.   |
| Sample Collected by | PADMAJA AEROBIOLOGICALS PVT. LTD.      |
| Date of Sampling    | 12/02/2022                             |

**PARTICULARS OF STACK**

|  |               |
|--|---------------|
| Stack Attached to                                | 20 TPH Boiler |
| Stack Diameter (Meter)                           | 3.0           |
| Stack Height (Meter)                             | 47            |
| Stack Temperature ( $^{\circ}$ C)                | 129           |
| Stack Velocity of Flue Gases (m/s)               | 7.5           |
| Stack Volume of Flue Gases (Nm <sup>3</sup> /hr) | 141168        |
| Type of Fuel                                     | Coal          |

**POLLUTION PARAMETERS**

| Parameter               | Result | Limit | Unit               | Method                                     |
|-------------------------|--------|-------|--------------------|--|
| Particulate Matter (PM) | 54     | 150.0 | mg/Nm <sup>3</sup> | IS-11255 (Part 1)- 1985<br>Reaffirmed-2019 |

**Remark: --**

Instrument used: -Polltech make Model PEM - SMK 10, Sr. No. AIR-I-006

Calibration Due date: - 18/03/2022.

*ALL*  
Analyst

*p a e l d*  
For Padmaja Aerobiologicals Pvt. Ltd.





# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.  
 Public Testing Laboratory  
 Recognised by Ministry of Environment Forest & Climate Change (MoEFCC):  
 Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024  
 ISO 9001 : 2015, ISO 45001:2018 Certified  
 CIN : U73100MH1995PTC092502  
 NABL Accreditation Certificate No. TC-5088 Valid upto 31.03.2022.

AIR-F-005

## CERTIFICATE OF ANALYSIS

### ANALYSIS REPORT FOR STACK EMISSION

|                              |  |
|------------------------------|--|
| Report Ref. No.              | 507A/A-184A/02-22  |
| Work Order No.               | --   |
| Report Date:-                | 21/02/2022   |
| Name of Industry<br>Address: | M/s. Shree Hiranyakeshi S.S.K. Niyamit<br>Sankeshwar – 591 314, Dist- Belgaum. |
| Sample Collected by          | PADMAJA AEROBIOLOGICALS PVT. LTD.  |
| Date of Sampling             | 12/02/2022   |

### PARTICULARS OF STACK

|  |                         |
|--|-------------------------|
| Stack Attached to                                | 100 TPH Boiler (2 Nos.) |
| Stack Diameter (Meter)                           | 4.8                     |
| Stack Height (Meter)                             | 87.0                    |
| Stack Temperature (°C)                           | 124                     |
| Stack Velocity of Flue Gases (m/s)               | 9.1                     |
| Stack Volume of Flue Gases (Nm <sup>3</sup> /hr) | 444009                  |
| Type of Fuel                                     | Bagasse                 |

### POLLUTION PARAMETERS

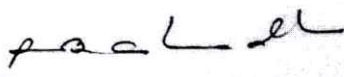
| Parameter               | Result | Limit | Unit               | Method                                     |
|-------------------------|--------|-------|--------------------|--|
| Particulate Matter (PM) | 108    | 150.0 | mg/Nm <sup>3</sup> | IS-11255 (Part 1)- 1985<br>Reaffirmed-2019 |

Remark: --

Instrument used: -Polltech make Model PEM – SMK 10, Sr. No. AIR-I-006

Calibration Due date: - 18/03/2022.

  
Analyst

  
For Padmaja Aerobiologicals Pvt. Ltd.



Annexure -3

# PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC):

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, ISO 45001:2018 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.03.2022.

AIR-F-006

**CERTIFICATE OF ANALYSIS**  
**NOISE LEVEL MEASUREMENT**

Ref. No.: 507E/A-184E/02-22

Date: 21/02/2022

Work order No.: --

To, M/s. Shree Hiranyakeshi S.S.K. Niyamit  
Sankeshwar - 591 314, Dist- Belgaum.

Date of Sampling: 12/02/2022

| Sr. No. | LOCATIONS                   | Noise Level in dB(A) Leq<br>Day time | Noise Level in dB(A) Leq<br>Night time |
|---------|-----------------------------|--------------------------------------|--|
| 1       | Near Weigh Bridge           | 68.0                                 | 63.9                                   |
| 2       | Near Cane Cutter            | 70.2                                 | 65.6                                   |
| 3       | Near Mill House             | 70.2                                 | 68.3                                   |
| 4       | Near Pan House              | 69.4                                 | 67.4                                   |
| 5       | Near Boiling House          | 69.7                                 | 67.4                                   |
| 6       | Near Boiler House           | 71.1                                 | 68.3                                   |
| 7       | Near Turbine House          | 72.6                                 | 69.8                                   |
| 8       | Near Distillery Main Gate   | 55.3                                 | 51.7                                   |
| 9       | Near Sugar Main Gate        | 58.6                                 | 53.5                                   |
| 10      | Near Factory General Office | 50.3                                 | 43.2                                   |

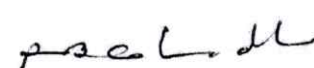
**Remark:--**

Instrument used: -Kusam-Meco KM 929 MK1 Sr. No. AIR-I-039

Calibration Due date: - 09/03/2022.

Limit: Day Time - <75.0 dB(A)

Night Time - <70.0 dB(A)

  
For Padmaja Aerobiologicals Pvt. Ltd.