सत्यमेव जयते

File No: IA-J-11011/458/2022-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Date **08/12/2023**

To,

VIJAYANAND KASHAPPANAVAR
VIJAYANAND KASHAPPANAVAR
SRK SUGARS PRIVATE LIMITED 001 SRK NILAYA JOSHI GALLI OPPOSITE PWD INSPECTION BUNGLOW ILKAL TALUK HUNGUND BAGALKOTE 587125, Belagal, BAGALKOTE, KARNATAKA, 587125
srksugars2022@gmail.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/KA/IND2/421439/2023 dated 10/10//2023 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A2501KA5382836N
(ii) File No.	IA-J-11011/458/2022-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(g) Distilleries,5(j) Sugar Industry,5(g) Distilleries,5(g) Distilleries,1(d) Thermal Power Plants
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Establishment of 10000 TCD Sugarcane Crushing Unit, 35 MW Co-generation unit and 200 KLD Multi feed (Cane Syrup/ Molasses/ Grain) based Distillery Unit at Sy. Nos. 159, 160 & 161 of Belagal Village, Hungund Taluk, Bagalkot District, Karnataka by M/s. SRK Sugars Pvt. Ltd
(viii) Name of Company/Organization	VIJAYANAND KASHAPPANAVAR
(ix) Location of Project (District, State)	BAGALKOTE, KARNATAKA

(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The Ministry of Environment, Forest and Climate Change has examined the proposal for proposed establishment of of 10000 TCD Sugarcane Crushing Unit, 35 MW Co-generation unit and 200 KLD Multi feed (Cane Syrup/ Molasses/ Grain) based Distillery Unit" located at Belagal Village, Hungund Taluk, Bagalkot District, Karnataka by M/s. SRK Sugars Pvt. Ltd.

4. The proposal was considered in EAC (Ind-2) meeting held on 30th – 31st October, 2023 wherein the project proponent and their accredited Consultant M/s. Environmental Health & Safety Consultants Pvt. Ltd. (NABET certificate no. NABET/EIA/2124/SA 0192/Rev and validity: 22.08.2024) made a detailed presentation on the salient features of the project. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code available above or through the following web link click here.

5. All Molasses based distillery projects are listed at S.N. 5(g) & Sugar Industries listed under 5 (j) & Thermal listed under 1(d) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). The proposed expansion project is an integrated Distillery, Sugar and Thermal industry hence the proposal is appraised at Central Level by Expert Appraisal Committee (EAC).

6. The details of products and capacity are enclosed at Annexure-2.

7. Standard Terms of Reference have been obtained vide File No.: IA-J-11011/458/2022-IA-II(I) dated: 17.11.2022 & Amendment to ToR obtained for Establishment proposal instead of Expansion proposal vide File No.: IA-J-11011/458/2022-IA-II(I) dated: 17.09.2023. A writ petition was filed vide WP No. 105778 of 2022 at High Court of Karnataka, Dharwad Bench and questioning the establishment of industry without securing the requisite permissions. However, the High court of Karnataka dismissed the case on 13/12/2022 since no material was produced before the Court.

Public Hearing for the proposed project had been conducted by the Karnataka State Pollution Control Board on 24.02.2023 at Project site premises of M/s. SRK Sugars Pvt. Ltd., Belagal Village, Hungund Taluk, Bagalkot District, Karnataka chaired by Shri. Ramesh Kalasad, Additional Deputy Commissioner & Chairman, Environmental Public Hearing Committee, Bagalkot District. The main issues raised during the public hearing and their action plan is enclosed at Annexure-5.

8. Total land area required is 21.6 Hectares. Entire land was industrially converted vide letter no. RS: KLR:CR-09-2015-16 Dt: 08.07.2016. Greenbelt will be developed in total area of 7.20 Hectares i.e., 33.32% of total project area. The estimated project cost is Rs. 653.4869 Crores. Capital cost of EMP would be Rs. 29.4869 Crores and recurring cost for EMP would be Rs. 0.9239 Crores per annum. Industry proposes to allocate Rs. 9.75 Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be 350 persons as direct & indirect.

9. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 Km distance. There are no Schedule – I species found in the study area and hence no Conservation plan applicable. Water bodies: Malaprabha River is at a distance of 1.17 Km in North direction and Krishna River is at a distance of 7.85 Km towards Northeast direction.

10. Ambient air quality monitoring was carried out at 9 locations during October 2022 to December 2022 and the baseline data indicates the ranges of concentrations as: PM_{10} (52.13 to 65.48 µg/m^3), $PM_{2.5}$ (18.11 µg/m^3 to 26.23 µg/m^3), SO_2 (6.28 µg/m^3 to 12.54 µg/m^3) and NO_2 (14.41 µg/m^3 to 20.62 µg/m^3). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.21 µg/m^3, 0.04 µg/m^3 and 0.01 µg/m^3 with respect to PM_{10}, SO_2 and NO_X. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. Total fresh water requirement will be 1000 CMD which will be met from Krishna River. Chief Engineer, Water Resource Department, Govt. of Karnataka recommended and forwarded the proposal of drawing 5000 KLD of water from Krishna River to Secretary, Water Resource Department, Vikasa Soudha, Govt. of Karnataka Bangalore on 21.10.2023. 2 Nalas / streams are located adjacent to the Project site and for which buffer of 9 m on both sides of the nala shall be provided. To construct, a Culvert across the Nala to reach the site, NOC has been obtained from Minor Irrigation Dept, Govt. of Karnataka on 31.10.2023. Proposed effluent generation from sugar unit Sugar unit will be 389 KLD will be treated in ETP of capacity 1300. Domestic sewage of 9 KLD will be treated in STP of 10 KLD and the treated water will be used for Greenbelt purpose. Excess condensate from Sugar unit will be treated in CPU of capacity 2500 KLD and the same will be recycled for cooling tower make up, for distillery & Greenbelt development. Spent wash generated from Distillery Unit will be pass through Bio-methanation Plant and concentrated in MEE and dried using spray drier to derive potash powder which will be packed and sold as manure. Process condensate, Spent lees, Cooling Tower and Boiler blow down will be treated in CPU of capacity 2400 KLD and the same will be recycled for cooling tower make up and for process. The plant will be based on Zero Liquid discharge system and treated effluent will not be discharged outside the factory premises.

12. Total power requirement of sugar & cogeneration unit will be 16 MW & for proposed distillery unit is 3.5 MW which will be sourced from proposed 35 MW co-generation power plant. 1 x 80 TPH bagasse fired boiler will be installed. APCE 1 No of Electrostatic Precipitator with a stack of height of 80 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm^3 for the boiler. Industry has 1 x 1250 KVA DG set & 1 x 1500 KVA DG set which will be used as standby during power failure and stack height 10 m (ARL) will be provided as per CPCB norms to the proposed DG sets.

13. Details of Processemissions generation and its management:

The air pollution sources from the proposed project are operation of Boiler (80 TPH), Operation of DG sets (1 x 1250 KVA & 1 x 1500 KVA), operation of co-gen plant (Turbine), Vehicular movement for loading and unloading of Raw material, finished products, handling of bagasse & coal in the industry, Fugitive emission from fly ash storage area, manufacturing process and other industrial activities, etc.

Mitigation Measures

- Bagasse storage area will be covered with sheets.
- All internal roads will be asphalted.
- Periodic water sprinkling will be carried out to supress the Dust.
- Green belt development will be undertaken all along with Periphery of the industry.
- Electro Static Precipitator with efficiency of 99.8% will be provided to Boilers (80 TPH) to mitigate Particulate matter and connected to stack height of 80 m.
- Acoustic enclosures will be provided to 1250 KVA & 1500 KVA DG sets with a stack height of 10 m ARL and will be used only during power failure. Regular stack monitoring will be carried out to ensure that the emissions are well within the norms.
- CO_2 generated during the fermentation process will be collected by utilizing CO_2 scrubbers and it shall be collected in proposed bottling plant.

14. Details of solid waste/Hazardous wastegeneration and its management are enclosed at Annexure - 6.

15. During deliberations, EAC discussed following issues:

- EAC noted that that there is a nala passing through the proposed plot where Industry wanted to construct a culvert across for entry to the project site. In this regard PP desired NOC for it. PP has informed that they have already obtained NOC for construction of Culvert across the Nala has been obtained from Minor Irrigation Department, Government of Karnataka on 31.10.2023.
- EAC suggested that there should be a separate STP for treatment of domestic sewage. PP informed that 10 KLD STP with SBR Technology is proposed in the project to treat 9 KLD Domestic Sewage.

- EAC desired the mitigation measures proposed to minimize concentrations of PM and NO_x in the study area. PP has informed that avenue plantation, usage of coal only as a start fuel, usage of low Sulphur diesel in DG sets etc are the mitigation measures proposed.
- EAC suggested that Industry shall install a brick manufacturing plant for utilisation of ash generated from the project.
- EAC noted that there are 2 Govt schools and a Hanuman temple are located within 1 km of the proposed site. PP has informed that following mitigation measures shall be adopted to mitigate impacts from the proposed project:

- Raw materials will be feeding through closed conveyors.
- Materials shall be transported in securely covered trucks to reduce dust emission.
- Electro Static Precipitator (ESP) with efficiency of 99.8% will be provided to Boiler (80 TPH) to capture the fly ash and connected to stack height of 80 m.
- Acoustic enclosures will be provided to 1250 KVA & 1500 KVA DG set with a stack height of 10m ARL and will be used only during power failure. Regular stack monitoring will be carried out to ensure that the emissions are well within the norms.
- Fugitive emissions shall be controlled by providing closed storage facility, closed handling and conveyance of chemicals/materials.
- Maintaining good housekeeping and Regular road sweeping with, vacuum machine/manually.
- Noise level will be reduced by stopping leakages from various steam lines, compressed air lines and other high-pressure equipment's.
- A thick and tall green belt will be developed towards the Village side within the plant to reduce fugitive emissions.
- EAC desired copy writ petition WP No. 105778 of 2022 disposed High court of Karnataka dismissed the case on 13/12/2022.
- EAC desired Cumulative Risk Assessment considering the leakage of pipes, valves, storage tanks including Emergency Response System during emergency.
- EAC suggested to increase the budget allocated to CER to 1.5 % of the total project cost as specified in TOR.

16. The committee was satisfied with the response provided by PP on above information. Further, Committee desired to submit the above information in writing. Accordingly, PP has submitted the desired information and EAC found the information/commitments satisfactory.

17. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

18. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of environmental clearance.

19. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain 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, from

the State Pollution Control Board, prior to construction & operation of the project.

20. 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 **proposed establishment of 10000 TCD Sugarcane Crushing Unit, 35 MW Co-generation unit and 200 KLD Multi feed (Cane Syrup/ Molasses/ Grain) based Distillery Unit" located at Belagal Village, Hungund Taluk, Bagalkot District, Karnataka by M/s. SRK Sugars Pvt. Ltd,** under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions enclosed at Annexure-1.

21. 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.

22. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

23. Any appeal against this environmental clearance 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.

24. 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 Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

25. This issues with the approval of the competent authority.

Copy To

1. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, Bangalore - 1
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 34
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 32
4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, #49, 4th& 5th Floor, Church Street, Bangalore -1
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, Bagalkot District, Karnataka
7. Guard File/Monitoring File/Parivesh portal/Record File.

Annexure 1

Specific EC Conditions for (Distilleries)

1. Specific Condition

S. No	EC Conditions
1.1	1. 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

S. No	EC Conditions
	EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented (Annexure - 3). 2. EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities. 3. NOC from the Concerned Local authority shall be obtained before start of the construction of plant and drawing water from surface water. State Pollution Control Board shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission. No ground water shall be used for the plant operations. 4. Total fresh water requirement after expansion shall not exceed 1000 m^3/day, which will be met from Krishna River. Treated effluent from the sugar unit shall be used in distillery to reduce fresh water requirement. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption. 5. Spent wash shall be concentrated in Multi Effect Evaporator and concentrated spent wash shall be dried for powder formation. Spent Wash/stillage shall be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blowdowns, washings etc., shall be treated in the 'Condensate Polishing Unit' (CPU). Efficient CPU shall be installed for the sugar unit to recycle the treated effluent to be used in distillery unit. PP shall upgrade the existing CPU of sugar unit by adding RO in order to recycle the treated condensate for distillery process. STP of 25 KLD capacity shall be installed to treat domestic wastewater. The plant will be based on 'Zero Liquid Discharge' system and no effluent/treated water will be discharged outside factory premises. PP shall ensure that spent wash shall not be treated through bio composting method. 6. Spent Wash/stillage during grain based operations shall be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. DDGS to be used as cattle feed. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blowdowns, washings etc., is shall be treated in the 'Condensate Polishing Unit' (CPU). STP shall be installed to treat domestic wastewater. The plant will be based on 'Zero Liquid Discharge' system and no effluent/treated water will be discharged outside factory premises. Domestic sewage generated in the plant shall not be mixed with industrial effluent and treated separately in Sewage Treatment Plant. 7. 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 conducted on monthly basis and report submitted to SPCB and RO, MOEFCC. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and Total Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office. 8. Five field ESP as APCE with a stack height of 80 m shall be installed with the proposed 80 TPH (Bagasse+Biofuel/Bagasse, Coal, Biogas, based Boiler) for controlling the particulate matter emissions within the statutory limit of 30 mg/Nm^3. The SO_2 and NO_x emissions from the shall be maintained within the statutory limit of 100 mg/Nm^3. At no time, the emission levels shall exceed 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. Performance assessment of pollution control devices/ systems will be conducted

S. No	EC Conditions
	annually. 8. Boiler ash shall be sent to brick manufacturing units in closed/covered containers. PP shall install 15% of the total power requirement from solar power inside plant premises/adjacent/nearby areas. 9. CO_2 (120 TPD) shall be collected by utilizing CO_2 scrubbers and it shall be collected in proposed bottling plant. 10. PP shall allocate at least Rs.0.5 crores for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection. 11.Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees. 12. 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. PESO certificate shall be obtained. Location of ethanol storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant i.e. the risk should be tolerable (acceptable) at the boundary. 13. Company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the location of the leak source and the probable leaked quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, Risk Mitigation plan shall be in place. 14.Company shall determine the distance of fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually. 15.Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF. 16.The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation. 17.The green belt of at least 5-10 m width shall developed in 7.20 hectares i.e., 33.30 % of total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Indigenous species shall only be planted as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall plant at-least 20 variety of species as a part of greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in

S. No	EC Conditions
	consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before commissioning of the plant. Green buffer of 9.0m shall be maintained along the drains/nalla passing through the plant and flowing adjacent in South and West of the plant . Additionally thick green belt shall be provided towards the Hanuman Temple and Primary School, Belagel. PP shall matain buffer zone of 50 metres from centre of the highway and develop green belt along the buffer zone. 18.PP proposed to allocate Rs. 9.75 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan (Annexure - 4 & 5) for monitorable activities like up-gradation of schools with provision of facilities e.g. Class rooms, playground, Laboratory, Library, Computer class, toilets, potable drinking water facilities, solar light/solar power support for uninterrupted power supply, soil nutrient management etc. Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration. 19.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. Out of the total project area, 15% i.e. 9.50 acres shall be allotted solely for parking purposes with facilities like rest rooms etc. The entry and exit to and from the highway shall be through slip roads . No direct entry / exit from from the Highway is permitted. 20.Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment. 21.Continuous online (24x7) monitoring system for stack emissions/effluent 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. 22. A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. EMC head shall report directly to Head of Organization/ Director/CEO as per company hierarchy. 23.PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Standard EC Conditions for (Distilleries)

1. General Conditions

S. No	EC Conditions
1.1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
1.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
1.4	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
1.5	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.
1.6	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
1.7	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.
1.8	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.
1.9	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 and at https://parivesh.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

S. No	EC Conditions
	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.
1.10	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.
1.11	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

Annexure 2

Details of the Project

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>a.</td><td>Details of the Project</td><td>Establishment of 10000 TCD Sugarcane Crushing Unit, 35 MW Co-generation unit and 200 KLD Multi feed (Cane Syrup/ Molasses/ Grain) based Distillery Unit at Sy. Nos. 159, 160 & 161 of Belagal Village, Hungund Taluk, Bagalkot District, Karnataka by M/s. SRK Sugars Pvt. Ltd</td></tr>
<tr><td>b.</td><td>Latitude and Longitude of the project site</td><td>16.15063133315711,76.01439089185332 16.15639743526093,76.01932412985005</td></tr>
<tr><td>c.</td><td>Land Requirement (in Ha) of the project or activity</td><td><table><tr><th>Nature of Land involved</th><th>Area in Ha</th></tr><tr><td>Non-Forest Land (A)</td><td>21.6</td></tr><tr><td>Forest Land (B)</td><td>0</td></tr><tr><td>Total Land (A+B)</td><td>21.6</td></tr></table></td></tr>
<tr><td>d.</td><td>Date of Public Consultation</td><td>Public consultation for the project was held on</td></tr>
<tr><td>e.</td><td>Rehabilitation and Resettlement (R&R) involvement</td><td>NO</td></tr>
<tr><td>f.</td><td>Project Cost (in lacs)</td><td>14000</td></tr>
<tr><td>g.</td><td>EMP Cost (in lacs)</td><td>1973.69</td></tr>
</table>

S. No.	Particulars	Details
h.	Employment Details	

Details of Products & By-products

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
White Sugar	Product	378	840	1218	TPD	Road
DDGS	By-Product	0	299	299	TPD	Road
Cogeneration	Product	14	21	35	Mega Watt (MW)	GRID
Potash powder	By-Product	0	214	214	TPD	Road
Pressmud	By-Product	200	280	480	TPD	Road
Ethanol	Product	0	200	200	Kilo Litre per Day (KLD)	Road

ANNEXURE-3

Details of capital and recurring cost of EMP:

Sl. No.	Particulars	Capital Cost in Crores	Recurring cost in Crores/ Annum
1	Air Pollution Mitigation during Construction Phase, Installation of APC Equipment such as ESP, purchasing of Vacuum machine	4.50	0.13
2	Installation of mobile STP & sanitation facilities to labours during construction phase	0.20	-
3	Drinking water facilities to labours during construction phase	0.10	-
4	Erection of tall barricades & water sprinkling during construction phase	0.40	-
5	Health & Medical facilities to labours during construction phase	0.20	-
6	Stacking of excavated earth and construction of garland drains around the construction site	0.20	-
7	Installation of Water Treatment Plant	2.00	-
8	Provision of piezometers	0.02	-
9	Closed conveyor belts to conveyor belts to control dust	0.30	-
10	Noise Level Mitigation Measures - installations on anti-vibrating pads, provision of acoustic enclosures	0.30	-
11	Provision of CPU & ETP	8.00	0.10
12	Online Continuous Monitoring of Emissions & Effluents System (OCMES)	0.40	0.05
13	Rainwater harvesting, construction of surface rainwater storage tanks & construction of recharge pits	0.50	0.05
14	Solid & hazardous waste management	0.30	0.0625
15	Green belt development	0.185	0.2042
16	Risk and Hazards Management	0.30	0.0550
17	Installation of MEE	0.50	0.050

Sl. No.	Particulars	Capital Cost in Crores	Recurring cost in Crores/ Annum
18	Traffic management and asphalting of internal roads	0.50	
19	Provision of solar lighting as part of Energy Conservation measures	0.30	0.12
20	Environmental Monitoring during construction phase & Operation Phase	0.0319	0.0522
21	Water sprinkling in internal roads & around bagasse	0.30	
22	Socio Economic Awareness programme	0.20	0.05
23	Corporate Environmental Responsibility (CER) cost	9.75	
	Grand Total	**29.4869**	**0.9239**

ANNEXURE-4

Details of CER with proposed activities and budgetary allocation:

Sl. No.	Topic	Work to be done	Units	Total Cost (in lakhs)	1st year FY 23-24 (in lakhs)	2nd Year FY 24 - 25 (in lakhs)	3rd Year FY 25 - 26 (in lakhs)	Completion Date
1	Drinking Water Supply	Provision of RO water treatment units in villages for drinking water supply i.e., Belagal, Medinapur, Hadagali, Kirasur, Nandenur, Ganjihal, Iddalagi, Varagoddinni & Bisanalkoppa	9 Units	60.00	3 Units at Belagal, Medinapur & Hadagali 20.00	3 Units at Kirasur, Nandenur & Ganjihal 20.00	3 Units at Iddalagi, Varagoddinni & Bisanalkoppa 20.00	Dec 2026
2	Health	Conducting community awareness programme like	6 Units	15.00	2 Units i.e., Belagal & Medinapur 5.00	2 Units i.e., Hadagali & Kirasur 5.00	2 Units i.e., Nandenur & Ganjihal 5.00	Dec 2026

Sl. No.	Topic	Work to be done	Units	Total Cost (in lakhs)	1st year FY 23-24 (in lakhs)	2nd Year FY 24 - 25 (in lakhs)	3rd Year FY 25 - 26 (in lakhs)	Completion Date
		aids awareness, polio camps, eye camps, preventive health programs on Women and children in the nearby villages i.e, Belagal, Medinapur, Hadagali, Kirasur, Nandenur & Ganjihal						
		Renovation of Government Hospital/Primary Health Centre at Tangadgi, Amingad & Hungund	3 Units	30.00	1 Unit i.e, Tangadgi 10.00	1 Unit i.e, Amingad 10.00	1 Unit i.e, Hungund 10.00	Dec 2026
		Provision of Ambulances	3 Units	60.00	1 No 20 Lakhs	1 No 20 Lakhs	1 No 20 Lakhs	Dec 2026
3	Plantation in nearby villages	Planting of various native species & fruit bearing plantations in nearby villages i.e., Belagal, Medinapur, Hadagali, Kirasur, Nandenur & Ganjihal	1800 Saplings	9.00	600 Nos at Belagal & Medinapur 3.00	600 Saplings at Hadagali & Kirasur 3.00	600 Saplings at Nandenur & Ganjihal 3.00	Dec 2026
4	Support for Education	Renovation & construction of classrooms & admin buildings at Government School	4 Units	40.00	1 Units i.e., Belagal 10.00	1 Units i.e., Ganjihal 10.00	2 Units i.e., Hadagali & Hungund 20.00	Dec 2026

Sl. No.	Topic	Work to be done	Units	Total Cost (in lakhs)	1st year FY 23-24 (in lakhs)	2nd Year FY 24 - 25 (in lakhs)	3rd Year FY 25 - 26 (in lakhs)	Completion Date
		Buildings/ College Buildings in surrounding villages i.e., Belagal, Ganjihal, Hadagali & Hungund.						
		Conducting awareness programs in schools & colleges on single use plastic ban in surrounding villages i.e, Belagal, Ganjihal, Hadagali & Hungund.	4 Units	8.00	1 Units i.e., Belagal 2.00	1 Units i.e., Ganjihal 2.00	2 Units i.e.,Hadagli & Hungund 4.00	Dec 2026
		Construction toilets in Govt. schools i.e., Belagal, Ganjihal, Hadagali & Hungund.	4 Units	4.00	1 Units i.e., Belagal 1.00	1 Units i.e., Ganjihal 1.00	2 Units i.e.,Hadagali & Hungund 2.00	Dec 2026
		Financial Support for Girl Education i.e., Free education for Higher Secondary and Graduation level	4 Units	80.00	4 Nos. from Belagal 20.00	4 Nos. from Ganjihal 20.00	4 Nos. from Hadagali & Hungund 40.00	Dec 2026
		Providing teaching aids/books, Computers, library, Sports	4 Units	20.00	1 Units i.e., Belagal 5.00	1 Units i.e., Ganjihal 5.00	2 Units i.e.,Hadagli & Hungund 10.00	Dec 2026

Sl. No.	Topic	Work to be done	Units	Total Cost (in lakhs)	1st year FY 23-24 (in lakhs)	2nd Year FY 24 - 25 (in lakhs)	3rd Year FY 25 - 26 (in lakhs)	Completion Date
		materials to schools at Belagal, Ganjihal, Hadagali & Hungund.						
5	Support for Agriculture	Training programs to farmers on nursery growing in surrounding villages i.e., Belagal, Medinapur, Hadagali, Kirasur, Nandenur, Ganjihal, Iddalagi & Varagoddinni	8 Units	16.00	3 Units i.e., Belagal, Medinapur & Hadagali 6.00	3 Units i.e., Kirasur, Nandenur & Ganjihal 6.00	2 Units i.e., Iddalagi & Varagoddinni 4.00	December 2026
		Providing tools & facilities for organic farming in the nearby villages i.e, Belagal, Medinapur & Hadagali	6 Units	33.00	2 Unit i.e., Belagal & Medinapur 11.0	1 Unit i.e., Hadagali & Kirasur 11.0	1 Unit i.e., Nandenur & Ganjihal 11.0	Dec 2026
		Construction of Farm Ponds in nearby villages i.e., Belagal, Medinapur, Hadagali, Kirasur, Nandenur, Ganjihal, Iddalagi, Varagoddinni	8 Units	12.00	4 Units i.e., Belagal, Medinapur, Hadagali & Kirasur 6.00	2 Units i.e., Nandenur & Ganjihal 3.00	2 Units i.e., Iddalagi, Varagoddinni 3.00	Dec 2026
6	Sanitation			30.00	10 Nos at Belagal &	10 Nos at Hadagali	10 Nos at Nandenur &	Dec 2026

Sl. No.	Topic	Work to be done	Units	Total Cost (in lakhs)	1st year FY 23-24 (in lakhs)	2nd Year FY 24 - 25 (in lakhs)	3rd Year FY 25 - 26 (in lakhs)	Completion Date
		Construction of toilets at 6 villages i.e., Belagal, Medinapur, Hadagali, Kirasur, Nandenur & Iddalagi	30 Units		Medinapur 10.00	& Kirasur 10.00	Iddalagi 10.00	
		Proper Drainage System in Belagal Village	1 Unit	15.00			Belagal 15.00	Dec 2026
7	Solar Lights	Provision of solar street lights to surrounding villages i.e, Belagal, Medinapur, Hadagali, Kirasur, Nandenur, Ganjihal, Iddalagi & Varagoddinni.	8 Units (220 Nos)	44.00	100 Nos Belagal & Medinapur 20.00	60 Nos Hadagali, Kirasur & Nandenur 12.00	60 Nos Ganjihal, Iddalagi & Varagoddinni 12.00	Dec 2026
8	Infrastructure	Bus Shelters and Upgradation of Bus Stand with basic facilities to villages at Belagal, Medinapur & Hadagali	3 Units	9.00	1 Unit at Belagal 3.00	1 Unit at Medinapur 3.00	1 Unit at Hadagali 3.00	Dec 2026
		Development of Community halls & Religious places at Belagal, Medinapur, Hadagali, Kirasur,	6 units	120.00	2 Unit at Belgal & Medinapur 40.00	2 Units at Hadagali & Kirasur 40.00	2 Units at Nandenur & Ganjihal 40.00	Dec 2026

Sl. No.	Topic	Work to be done	Units	Total Cost (in lakhs)	1st year FY 23-24 (in lakhs)	2nd Year FY 24 - 25 (in lakhs)	3rd Year FY 25 - 26 (in lakhs)	Completion Date
		Nandenur & Ganjihal						
9	Solar park	Solar park will be established to produce renewal energy and connected to Grid	1 Unit	370.00	--	--	370	Dec 2026
Total in Crores				**9.75**	**5.62**	**1.81**	**2.32**	

ANNEXURE-5

The main issues raised during the public hearing and their action plan:

Sl. No	Issue in brief	Action Plan in brief	Budget Allocated and timeline
A. Issues raised during Actual Interaction			
1	Shree Ambrish Nagur Ex-President of Akhila Bharat Krushi Vidnyan Sahitya Parishat of Hungund town He extended his support for undertaking the proposed establishment of project.	Agreed	**Not Applicable**
2	Shree Mahantesh Halawar of Belagal Village He informed that, the surrounding villagers will get employment in the factory from which they will be benefited.	M/s. SRK Sugars Pvt. Ltd., will provide total 350 Nos of employment opportunities to surrounding villagers.	Not Applicable
3	Shree Vijay Mahantesh Gaddanakeri of Chittawadagi Village.	M/s. SRK Sugars Pvt. Ltd., will provide total 350 Nos of employment opportunities to surrounding villagers.	Not Applicable

Sl. No	Issue in brief	Action Plan in brief	Budget Allocated and timeline
	He informed that, the employment opportunities will be generated to the local youths only from establishment of said industry and also useful for local farmers.		
4	Shree Shivanand Nagathan of Hoovanur Village He informed that, the surrounding villagers will get employment in the factory from which they will be benefited. Hence, he welcomed the proposed project.	M/s. SRK Sugars Pvt. Ltd., will provide total 350 Nos of employment opportunities to surrounding villagers.	Not Applicable
5	Shree Channappa Madar of Hoovanur Village He stated that, the surrounding farmers will be benefited from the establishment of the proposed industry and also the youth of the surrounding area will get employment.	M/s. SRK Sugars Pvt. Ltd., will provide total 350 Nos of employment opportunities to surrounding villagers.	Not Applicable
6	Shree Shrikant Hiremath of Hoovanur Village. Helpful for nearby farmers for transportation of sugarcane.	Agreed	Not Applicable
7	Shree Basavaraj Madar of Kirasoor village. He informed that, there are no Sugar industries in Hunagund Taluka. By establishing the proposed industry the surrounding farmers will be benefitted and the youth of the surrounding area will get employment opportunities.	M/s. SRK Sugars Pvt. Ltd., will provide total 350 Nos of employment opportunities to surrounding villagers.	Not Applicable

Sl. No	Issue in brief	Action Plan in brief	Budget Allocated and timeline
8	Shree Ramzan Sheshagiri of Belagal village. He informed that, the villagers and youth of Belagal village are travelling to other Towns & Cities for search of jobs as there are no job opportunities in nearby area. By establishing this proposed industry, the youth of the surrounding villagers will get employment opportunities.	M/s. SRK Sugars Pvt. Ltd., will provide total 350 Nos of employment opportunities to surrounding villagers	Not Applicable
9	Shree Dhavalasab Amaravati of Hadagali village. By establishing the proposed industry the surrounding farmers will be benefitted as it will reduce their transportation cost and it is very helpful for the surrounding villagers in up liftment of their economical condition. The youth of the surrounding villagers will get employment opportunities.	M/s. SRK Sugars Pvt. Ltd., will provide total 350 Nos of employment opportunities to surrounding villagers.	Not Applicable
10	Shree Hanumantappa Magi of Hadagali village He expressed his pleasure stating that, it is very helpful for transporting the sugarcane crop as the said sugar industry will be established in the nearby area.	Agreed	Not Applicable
11	Shree Mallanagouda Patil of Nandanur village He expressed his pleasure stating that, it will be very helpful for transporting the sugarcane crop as the said sugar industry will be established in the nearby area.	Agreed	Not Applicable
12	Shree Muttanna Kathanri of Hadagali Village By establishing the proposed industry the surrounding farmers will be	M/s. SRK Sugars Pvt. Ltd., will provide total 350 Nos of employment opportunities to surrounding villagers	Not Applicable

Sl. No	Issue in brief	Action Plan in brief	Budget Allocated and timeline
	benefitted and the youth of the surrounding area will get employment opportunities.		
13	Shree Shrishail Angadi of Belagal village ➢ Proposal to adopt latest technology to control Air & Water Pollution issues. ➢ The youth of the surrounding area will get employment opportunities from proposed industry.	**Action Plan:** ➢ M/s. SRK Sugars Pvt. Ltd., is undertaking that APCE's will be installed before operation of the industry and regular maintenance will be carried out and legal rules and regulations will be followed. ➢ ESP will be attached to the stacks height of 80 m and regular water sprinkling will be carried out to control air pollution. ➢ The generated wastewater from sugarcane crushing unit (389 KLD) will be treated in ETP of capacity 1300 KLD and sewage from the domestic activities (9 KLD) will be treated in STP of 10 KLD. ➢ Excess condensate from Sugar unit will be treated in Condensate Polishing Unit (CPU) of capacity 2500 KLD and the treated water will be utilised in process. ➢ The condensate from distillery unit will be treated in CPU of capacity 2400 KLD and the treated water will be utilised in process. ➢ Hence the plant is achieving ZLD concept & there is no discharge of water on ground or outside of the project.	**Budget:** Installation of APCE'S as a part of EMP : 450 Lakhs Water Sprinkling : 30 Lakhs Implementation of ETP & CPU as a part of EMP: 800 Lakhs. To conduct employment training programmes to youth: 30 Lakhs **Timeline:** After grant of EC; Year 2024-25
14	Shree Mahantappa S Undodi of Belagal village ➢ The villagers of surrounding villages will face problems regarding Environmental Pollution. ➢ There are Primary schools in villages, which will also get affected from the establishment of proposed industry. ➢ Also, the air pollution will cause breathing problems and	**Response:** The Environmental Consultant informed that Belagal village will not be affected by the proposed industry as the project proponent have taken all the control measures to prevent the surrounding environment. **Action Plan:** ➢ M/s. SRK Sugars Pvt. Ltd., is undertaking that APCE's will	**Budget:** Installation of APCE'S as a part of EMP : 450 Lakhs Water Sprinkling : 30 Lakhs Implementation of ETP & CPU as a

Sl. No	Issue in brief	Action Plan in brief	Budget Allocated and timeline
	cause diseases like Asthama & Cancer.	be installed before operation of the industry and regular maintenance will be carried out and legal rules and regulations will be followed. ➢ ESP will be attached to the stacks height of 80 m and regular water sprinkling will be carried out to control air pollution. ➢ The generated wastewater from sugarcane crushing unit (389 KLD) will be treated in ETP of capacity 1300 KLD and sewage from the domestic activities (9 KLD) will be treated in STP of 10 KLD. ➢ 9 m Buffer will be provided from the edges of the Nala and greenbelt will be developed on both sides of the Nala. ➢ Raw materials will be feeding through closed conveyors. ➢ Materials shall be transported in securely covered trucks to reduce dust emission. ➢ Electro Static Precipitator (ESP) with efficiency of 99.8% will be provided to Boiler (80 TPH) to capture the fly ash and connected to stack height of 80 m. ➢ Acoustic enclosures will be provided to 1250 KVA & 1500 KVA DG set with a stack height of 10m ARL and will be used only during power failure. Regular stack monitoring will be carried out to ensure that the emissions are well within the norms. ➢ Fugitive emissions shall be controlled by providing closed storage facility, closed handling and conveyance of chemicals/materials. ➢ Maintaining good housekeeping and Regular road sweeping with vacuum machine/manually.	part of EMP: 800 Lakhs. Greenbelt development: 18.50 Lakhs **Timeline:** After grant of EC; Year 2024-25

Sl. No	Issue in brief	Action Plan in brief	Budget Allocated and timeline
		➢ Noise level will be reduced by stopping leakages from various steam lines, compressed air lines and other high-pressure equipment's. ➢ A thick and tall green belt will be developed towards the Village side within the plant to reduce fugitive emissions. .	
15	Shree Shankar Negali of Hadagali village He informed that, proposed industry the surrounding farmers will be benefitted as it will reduce their transportation cost and it is very helpful for the surrounding villagers in up liftment of their economical condition.	Agreed	Not Applicable
16	Shree Sanganna S Shirur of Bisanalakoppa village He informed that, there will not be any health related problems to the surrounding villagers after establishing the proposed industry as they are proposed to adopt the latest technology available.	Agreed	Not Applicable
17	Shree Amaresh Nagur, Ex-President of Akhil Bharat Krushi Vidnyan Sahitya Parishat of Hunagund Town He informed that, the Project Proponent has proposed to establish the said industry on Zero Liquid Discharge concept, which means there will be no discharge from the proposed industry.	Agreed	Not Applicable
B. Issues raised in Written Complaints			
1	Shivappa Thippanna & 77 others of Belagal village	**Response:** The Environmental Consultant informed that Belagal village will not be affected by the proposed industry as	**Budget:** Installation of APCE'S as a part

Sl. No	Issue in brief	Action Plan in brief	Budget Allocated and timeline
	Air pollution, Health related issues and water pollution which affects Drinking Water Quality	the project proponent have taken all the control measures to prevent the surrounding environment. **Action Plan:** ➢ M/s. SRK Sugars Pvt. Ltd., is undertaking that APCE's will be installed before operation of the industry and regular maintenance will be carried out and legal rules and regulations will be followed. ➢ ESP will be attached to the stacks height of 80 m and regular water sprinkling will be carried out to control air pollution. ➢ The generated wastewater from sugarcane crushing unit (389 KLD) will be treated in ETP of capacity 1300 KLD and sewage from the domestic activities (9 KLD) will be treated in STP of 10 KLD. ➢ 9 m Buffer will be provided from the edges of the Nala and greenbelt will be developed on both sides of the Nala. ➢ Raw materials will be feeding through closed conveyors. ➢ Materials shall be transported in securely covered trucks to reduce dust emission. ➢ Electro Static Precipitator (ESP) with efficiency of 99.8% will be provided to Boiler (80 TPH) to capture the fly ash and connected to stack height of 80 m. ➢ Acoustic enclosures will be provided to 1250 KVA & 1500 KVA DG set with a stack height of 10m ARL and will be used only during power failure. Regular stack monitoring will be carried out to ensure that the emissions are well within the norms.	of EMP : 450 Lakhs Water Sprinkling : 30 Lakhs Implementation of ETP & CPU as a part of EMP: 800 Lakhs. Greenbelt development : 18.50 Lakhs **Timeline:** After grant of EC; Year 2024-25

Sl. No	Issue in brief	Action Plan in brief	Budget Allocated and timeline
		➢ Fugitive emissions shall be controlled by providing closed storage facility, closed handling and conveyance of chemicals/materials. ➢ Maintaining good housekeeping and Regular road sweeping with vacuum machine/manually. ➢ Noise level will be reduced by stopping leakages from various steam lines, compressed air lines and other high-pressure equipment's. ➢ A thick and tall green belt will be developed towards the Village side within the plant to reduce fugitive emissions. .	
2	Gram Panchayat, Belagal Environmental pollution, Odour nuisance and Health problems.	**Response:** The waste generated will be handled scientifically and not disposed into the open area. The waste generated will be utilized within the plant as manure, ash will be utilised for brick manufacturing, hazardous waste generated will be handed over to authorized vendors and domestic waste will handed over to local body. **Action Plan:** ➢ The generated wastewater from sugarcane crushing unit (389 KLD) will be treated in ETP and sewage from the domestic activities (9 KLD) will be treated in STP of capacity 10 KLD. ➢ Excess condensate from Sugar unit will be treated in Condensate Polishing Unit (CPU) of capacity 2500 KLD and the treated water will be utilised in process. ➢ The condensate from distillery unit will be treated in CPU of capacity 2400 KLD and the	**Budget:** Implementation of ETP & CPU as a part of EMP: 800 Lakhs. Greenbelt development : 18.50 Lakhs **Timeline:** After grant of EC; Year 2024-25

Sl. No	Issue in brief	Action Plan in brief	Budget Allocated and timeline
		treated water will be utilised in process. Hence the plant is achieving ZLD concept & there is no discharge of water on ground or outside of the project. ➢ Industry has proposed to development total 17.79 Acres (33.32% of their total land) of greenbelt within plant premises and on either side of roads and along the plant boundary, hence there will be no odour problem from the industry	
3	Shri M S S R Institute Belagal Air Pollution, Health related issues and Water Pollution	**Response:** The Environmental Consultant informed that Belagal village will not be affected by the proposed industry as the project proponent have taken all the control measures to prevent the surrounding environment. **Action Plan:** ➢ M/s. SRK Sugars Pvt. Ltd., is undertaking that APCE's will be installed before operation of the industry and regular maintenance will be carried out and legal rules and regulations will be followed. ➢ ESP will be attached to the stacks height of 80 m and regular water sprinkling will be carried out to control air pollution. ➢ The generated wastewater from sugarcane crushing unit (389 KLD) will be treated in ETP of capacity 1300 KLD and sewage from the domestic activities (9 KLD) will be treated in STP of 10 KLD. ➢ 9 m Buffer will be provided from the edges of the Nala and greenbelt will be developed on both sides of the Nala. ➢ Raw materials will be feeding through closed conveyors.	**Budget:** Installation of APCE'S as a part of EMP : 450 Lakhs Implementation of ETP & CPU as a part of EMP : 800 Lakhs Water sprinkling as a part of EMP : 30 Lakhs Noise control devices : 30 Lakhs **Timeline:** After grant of EC; Year 2024-25

Sl. No	Issue in brief	Action Plan in brief	Budget Allocated and timeline
		➢ Materials shall be transported in securely covered trucks to reduce dust emission. ➢ Electro Static Precipitator (ESP) with efficiency of 99.8% will be provided to Boiler (80 TPH) to capture the fly ash and connected to stack height of 80 m. ➢ Acoustic enclosures will be provided to 1250 KVA & 1500 KVA DG set with a stack height of 10m ARL and will be used only during power failure. Regular stack monitoring will be carried out to ensure that the emissions are well within the norms. ➢ Fugitive emissions shall be controlled by providing closed storage facility, closed handling and conveyance of chemicals/materials. ➢ Maintaining good housekeeping and Regular road sweeping with vacuum machine/manually. ➢ Noise level will be reduced by stopping leakages from various steam lines, compressed air lines and other high-pressure equipment's. ➢ A thick and tall green belt will be developed towards the Village side within the plant to reduce fugitive emissions. .	

Annexure - 6

Details of solid waste/Hazardous waste generation and its management:

Sl. No.	Waste	Qty.	Method of collection	Mode of Disposal
A. Solid Waste				
1	Yeast sludge from fermenter & digester	5.40 TPD	Mechanical conveyor	Used as manure inside the plant premises and remaining will be given to farmers
2	Sludge from CPU	0.250 TPD	Filter Press	
3	Fly Ash	28.5 TPD	Mechanical conveyor into common silo for further disposal	Sold to brick manufacturers
	Bottom Ash	12.5 TPD		
4	Bagasse	3000 TPD	Mechanical conveyor	Used as boiler feed.
5	Press mud	480 TPD	Mechanical conveyor	Used as manure inside the plant premises and remaining will be given to farmers
6	ETP Sludge	112 Kg/day	Mechanical conveyor	Used as manure inside the plant premises and remaining will be given to farmers
7	DDGS	103 TPD	Stored in common silo	Will be sold as cattle feed/fish feed.
8	Domestic solid waste	60 Kg/day	Segregated into organic & inorganic solid wastes and stored in bins	Hungund municipal Agencies.
B. Hazardous Waste Generation Details				
1	Used oil from DG sets	0.500 Kl/A	Stored at an identified place with proper sign board, Stored in leak proof sealed barrels	Used as lubricants for Conveyor chains and sprockets within the industry to avoid use of fresh oil.
2	Oil Soaked Cotton waste	100 Kg/A	Storage Yard	Used for light up/ start-up of Boiler
3	Empty Barrels /Containers	30-50 no's	Storage Yard	Disposed to authorized recyclers.
C. Plastic waste				

Sl. No.	Waste	Qty.	Method of collection	Mode of Disposal
1	Plastic waste	0.02 TPA	Collected and stored in separate bins	Handed over to KSPCB approved recyclers
D. E- Waste				
1	Electronic Waste	0.01 TPA	Collected and stored in designated place	Handed over to E-Processors
E. Bio-medical waste				
1	Biomedical waste	0.017 TPA	Collected in separate bins	Handed over to CBMWTF
F. Batteries Waste				
1	Batteries	0.017 TPA	Collected and stored in designated place	Handed over to Battery waste recyclers

Signature Not Verified

Digitally Signed by : Dr Vimal Kumar Hatwal
Member Secretary, MoEFCC (EC)

Date: 08/12/2023