



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annex, Mumbai- 400 032.
Date: June 1, 2020

To,
M/s. Shree Datta Shetkari Sahakari Sakhar Karkhana Limited
at Agar bagh- 343 to 352, 354, 361 shiro- 251, 252, 717, 903, 129, 133/2, 135, 134, 136, 210, 213, 214, 230, 229, 232 to 237, 242, 246+241, 247 to 249, 127, 131

Subject: Environment Clearance for Environment Clearance for Expansion of Sugarcane crushing capacity from 9000 TCD to 15000TCD, Distillery capacity from 60 KLPD to 90 KLPD (Rectified Spirit/ENA/Ethanol) and establishment of 21 + 5 MW Co-generation Power Plant

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 172nd meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 194th meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category Category-B as per EIA Notification 2006.

Brief Information of the project submitted by you is as below :-

1.Name of Project	Proposed Expansion of Sugarcane crushing capacity from 9000 TCD to 15000TCD, Distillery capacity from 60 KLPD to 90 KLPD (Rectified Spirit/ENA/Ethanol) and establishment of 21 + 5 MW Co-generation Power Plant at Dattanagar, Tal. Shirol, Dist. Kolhapur, Maharashtra by Shree Datta Shetkari Sahakari Sakhar Karkhana Limited
2.Type of institution	Private
3.Name of Project Proponent	M/s. Shree Datta Shetkari Sahakari Sakhar Karkhana Limited
4.Name of Consultant	Dr. Subbarao's Environment Center, Sangli
5.Type of project	Other/Expansion
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in Manufacturing Capacity
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Received Environment Clearance for 1. Sugar Unit Vide Letter No. SEIAA-EC-0000000326 Dated 1st June 2018 and 2. for Distillery Unit, F. No. J-11011/33/2001-IA II(I) dated 11th December 2001
8.Location of the project	Agar bagh- 343 to 352, 354, 361 shiro- 251, 252, 717, 903, 129, 133/2, 135, 134, 136, 210, 213, 214, 230, 229, 232 to 237, 242, 246+241, 247 to 249, 127, 131
9.Taluka	Shirol
10.Village	Dattanagar, Shirol
Correspondence Name:	Mr. Vishwajit Shinde
Room Number:	A/p. Dattanagar, Tal. Shirol
Floor:	Dist. Kolhapur
Building Name:	Maharashtra State
Road/Street Name:	Shirol
Locality:	Shirol
City:	Shirol, Kolhapur
11.Whether in Corporation / Municipal / other area	Other Area
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 46100
13.Note on the initiated work (If applicable)	Work shall be initiated as soon as the approval of EC is received

14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	854600 m2
16.Deductions	Not Applicable
17.Net Plot area	854600 (m2)
18 (a).Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): 46100 Non FSI area (sq. m.): 50000 Total BUA area (sq. m.): 96100
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 46100 Approved Non FSI area (sq. m.): 00 Date of Approval: 29-06-2019
19.Total ground coverage (m2)	46100
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	5.4
21.Estimated cost of the project	2702300000



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22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Sugar	33750	24750	58500
2	Industrial Alcohol	1800	900	2700
3	Ethanol	900	1800	2700
4	Co-generation Power	0 MW	21 MW + 5 MW	21 MW + 5 MW

23. Total Water Requirement

Dry season:	Source of water	Surface Water- Panchaganga River
	Fresh water (CMD):	5161
	Recycled water - Flushing (CMD):	4396 (Into Sugar and Distillery Processes)
	Recycled water - Gardening (CMD):	84
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	681
	Fire fighting - Underground water tank(CMD):	3712
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	Not applicable
Wet season:	Source of water	Surface Water- Panchaganga River
	Fresh water (CMD):	5161
	Recycled water - Flushing (CMD):	4396 (Into Sugar and Distillery Processes)
	Recycled water - Gardening (CMD):	84
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	681
	Fire fighting - Underground water tank(CMD):	3712
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

24. Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
	Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	106	0	106	22	0	22	84	0	84	
Industrial Process	2310	1895	4205	910	730	1640	1400	1165	2565	
Cooling tower & thermopack	400	450	850	320	360	680	80	90	170	
Fresh water requirement	00	681	681	00	00	00	00	00	00	

25. Rain Water Harvesting (RWH)	Level of the Ground water table:	Pre-monsoon from 15 m to 8 m and Post-Monsoon from 12 m to 6 m
	Size and no of RWH tank(s) and Quantity:	10 Nos 40 m3 Each
	Location of the RWH tank(s):	Near Each Building
	Quantity of recharge pits:	8
	Size of recharge pits :	7.5 m * 4 m * 1.5 m
	Budgetary allocation (Capital cost) :	4000000
	Budgetary allocation (O & M cost) :	200000
	Details of UGT tanks if any :	10* 40 m3 Each

26. Storm water drainage	Natural water drainage pattern:	Plain
	Quantity of storm water:	220800 m3
	Size of SWD:	0.3 m

27. Sewage and Waste water	Sewage generation in KLD:	84 m3/day
	STP technology:	Root zone Technology
	Capacity of STP (CMD):	1 * 100 m3/day
	Location & area of the STP:	Near Residential Colony
	Budgetary allocation (Capital cost):	1000000
	Budgetary allocation (O & M cost):	50000

28. Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Construction Waste
	Disposal of the construction waste debris:	Used in filling low lying area
Waste generation in the operation Phase:	Dry waste:	Incinerator boiler ash, Fly ash
	Wet waste:	Pressmud
	Hazardous waste:	Spent oil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	Nil
	Others if any:	Nil
Mode of Disposal of waste:	Dry waste:	Treated in composting/Sold to brick manufacturers
	Wet waste:	Treated in composting
	Hazardous waste:	Mixed with bagasse and burnt in boiler
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	Location(s):	Compost Yard
	Area for the storage of waste & other material:	10 Ha
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	40000000
	O & M cost:	400000

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29.Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	NA	4.5-5.5	6.5-8.0	5.5-9.0
2	COD	mg/l	2500-5000	50-150	250
3	BOD	mg/l	1000-3000	20-70	100
4	Sulphates as SO ₄	mg/l	100-500	50-150	1000
5	Total Suspended Solids	mg/l	500-1000	40-70	100
6	Chlorides	mg/l	150-500	50-200	600
7	Total Dissolved Solids	mg/l	1000-2000	300-600	2100
8	Oil and Grease	mg/l	15-20	0-3	10
Amount of effluent generation (CMD):		1. 900 m3/day -Sugar and Cogeneration Effluent, 2. 1500 m3/day Spraypond overflow, 3. 160 m3/day fro 60 KLPD Distillery and 80 m3/day from 30 KLPD Distillery			
Capacity of the ETP:		1&2. 2400 m3/day for the treatment of Sugar and Co-generation effluent and Spraypond overflow. 3. 200 m3/day for 60 KLPD Distillery and 100 M3/day for 30 KLPD Distillery			
Amount of treated effluent recycled :		NA			
Amount of water send to the CETP:		NA			
Membership of CETP (if require):		NA			
Note on ETP technology to be used		1. Primary treatment as anaerobic filter and for seconday treatment MBBR media shall be installed in the existing aeration tank, sludge drying bed followed by clarrier followed by sand and activated charcoal filter 2. Combined with sugar effluent after primary treatment. 3. for 60 KLPD Distillery MEE followed by Incineration boiler and for 30 KLPD distillery MEE followed by Composting			
Disposal of the ETP sludge		Disposed in Composting			

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30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	MTA	3	2	5	Mixed with Bagasse and burnt in boiler
2	Chemical sludge from waste water treatment	5.0	MTA	55	25	80	Disposed in Composting

31.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Co-generation Power Plant (120 TPH Boiler)	Bagasse (1152 MT/D)	1	70	4.0	125
2	Distillery Unit (25 TPH Incineration Boiler with 5 MW TG Set)	Conc. Spentwash- 216 MT/D and Coal- 43.2 MT/Day	1	70	4.0	180

32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Bagasse	0	1152 MT/Day	1152 MT/Day
2	Coal	0	43.2 MT/Day	43.2 MT/Day
3	Concentrated Spentwash	0	216 MT/Day	216 MT/Day
Source of Fuel		Bagasse: Captive (Sugar Unit), Coal: Open Market, Concentrated Spentwash: Captive (Sistillery Unit)		
Mode of Transportation of fuel to site		Coal: By Road		

33.Energy

Power requirement:	Source of power supply :	Captive
	During Construction Phase: (Demand Load)	Nil
	DG set as Power back-up during construction phase	1*500 KVA
	During Operation phase (Connected load):	21 + 5 MW
	During Operation phase (Demand load):	18.7 MW
	Transformer:	2000 KVA
	DG set as Power back-up during operation phase:	1* 500 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Yes, 33 MW

34.Energy saving by non-conventional method:

Solar Street Lamps shall be provided.

36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED Lights	1 %
2	Solar Street Lights	5%

37. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sugar and Co-generation Process Effluent	Primary and Secondary Treatment	Primary treatment as anaerobic filter and for secondary treatment MBBR media shall be installed in the existing aeration tank, Sludge drying bed followed by clarifier followed by sand and Activated charcoal filter
Spraypond Overflow	Primary and Secondary Treatment	Combined with Sugar effluent after primary treatment
Existing 60 KLPD Distillery Spentwash	MEE followed by Composting	MEE Followed by Incineration Boiler
Proposed 30 KLPD Distillery Spentwash	NA	MEE followed by Composting

Budgetary allocation
(Capital cost and O&M cost):

Capital cost: 4000000

O & M cost: 500000

38. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Fugitive Emissions	Particulate Matter	10

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sugar and Co-generation Power Plant	Liquid and Gaseous Pollutants	500	70
2	Distillery	Liquid and Gaseous Pollutants	3000	100
3	Monitoring of various ETP Parameters	laboratory	50	5
4	Greenbelt Development	Planting and maintenance of trees	--	8
5	Monitoring and Consultancy Charges (3rd Party)	Environmental Monitoring as per EMP	--	16
6	Occupational Health	Personal Protective equipment	--	5.0

39. Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	NA	NA	NA	NA	NA

40. Any Other Information

No Information Available

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category-B
	Court cases pending if any	Nil
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	15-06-2019

3. The proposal has been considered by SEIAA in its 194th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

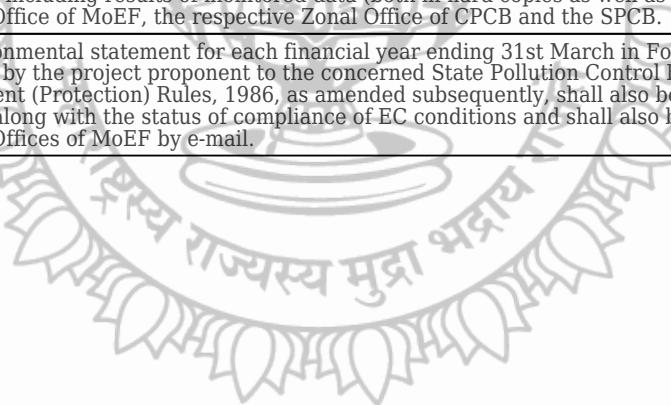
Specific Conditions:

I	PP to prepare and implement year wise plan to achieve 100% drip irrigation for the area under sugar cane cultivation.
II	PP to prepare and implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
III	PP to ensure that CER plan gets approved from District Collector.
IV	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF& CC dated 9th August, 2018.

General Conditions:

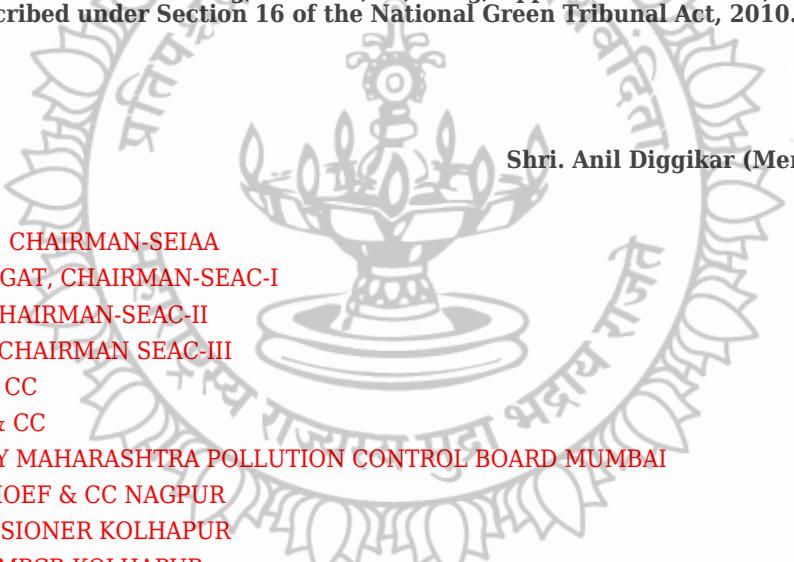
I	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
IV	Proper Housekeeping programmers shall be implemented.
V	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
VIII	Arrangement shall be made that effluent and storm water does not get mixed.
IX	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
X	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
XI	The overall noise levels in and around the plant are 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 confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
XII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Deptt.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XV	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
XVII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XIX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the MPCB & this department
XX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in
XXI	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
XXII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
XXIII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
XXIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
XXV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.



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4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.
5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.
6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.
8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

 Shri. Anil Diggikar (Member Secretary SEIAA)



Copy to:

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER KOLHAPUR
10. REGIONAL OFFICE MPCB KOLHAPUR
11. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
12. COLLECTOR OFFICE KOLHAPUR
13. COLLECTOR OFFICE SANGLI

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