



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

सत्यमेव जयते

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date: May 14, 2018

To,
M/s. Kukadi Sahakari Sakhar Karkhana Ltd
at Gut No. 91 & 92

Subject: Environment Clearance for Expansion of sugar mill from 3,500 TCD to 5,500 TCD and cogeneration unit from 12 MW to 27 MW

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 147th Meetingth 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 129th meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category Category B: For Sugar: 5 (j), For Thermal Project: 1 (d) as per EIA Notification 2006.

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

1.Name of Project	M/s. Kukadi Sahakari Sakhar Karkhana Ltd
2.Type of institution	TOR
3.Name of Project Proponent	M/s. Kukadi Sahakari Sakhar Karkhana Ltd
4.Name of Consultant	Vasantdada Sugar Institute, Majari (Bk)
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NOT applicable
8.Location of the project	Gut No. 91 & 92
9.Taluka	Shrigonda
10.Village	Pimpalgaon Pisa
11.Whether in Corporation / Municipal / other area	Other Area: Grampanchayat
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable IOD/IOA/Concession/Plan Approval Number: Not Applicable Approved Built-up Area:
13.Note on the initiated work (If applicable)	No work has been initiated for said work
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable

SEIAA Meeting No: 129 Meeting Date: May 10, 2018 (SEIAA-STATEMENT-000000631)
SEIAA-MINUTES-0000000422
SEIAA-EC-0000000298

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Shri. Anil Diggikar (Member Secretary SEIAA)

18 (a).Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): Not applicable
	Non FSI area (sq. m.): Not applicable
	Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.):
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	717600000



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22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Sugar	12075	11625	23700
2	Bagasse	28860	27840	56700
3	Molasses	4200	4050	8250
4	Press Mud	4200	4050	8250
5	Power	12 MW	10.15 MW	22.15 MW (During Season)
6	Power	-	11.66 MW	11.66 MW(During Off Season)

23. Total Water Requirement

Dry season:	Source of water	Mohorwadi Reservoir
	Fresh water (CMD):	168
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	168
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	Source of water	Mohorwadi Reservoir
	Fresh water (CMD):	65
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	65
	Fire fighting - Underground water tank(CMD):	Not applicable
	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	15	3.5	18.5	1.5	0.15	1.65	13.5	1.35	14.85
25.Rain Water Harvesting (RWH)	Level of the Ground water table:		10 m - 20 m						
	Size and no of RWH tank(s) and Quantity:		Size of storage tank : 50 * 60 * 2 m & Capacity: 6000 CM						
	Location of the RWH tank(s):		Near Godown No. 102 & 103						
	Quantity of recharge pits:		Not any						
	Size of recharge pits :		Not any						
	Budgetary allocation (Capital cost) :		Rs. 7 .00 Lakhs						
	Budgetary allocation (O & M cost) :		Rs. 0.50 Lakhs						
	Details of UGT tanks if any :		Not applicable						
26.Storm water drainage	Natural water drainage pattern:		Study area shows highest order of drainage as 7th order.						
	Quantity of storm water:		81033 cum/annum						
	Size of SWD:		0.6 m * 0.45 m * 12500 m approx.						
27.Sewage and Waste water	Sewage generation in KLD:		30 KLD						
	STP technology:		Domestic sewage will be treated in septic tank and soak pits						
	Capacity of STP (CMD):		Not applicable						
	Location & area of the STP:		--						
	Budgetary allocation (Capital cost):		Rs. 15.00 Lakhs						
	Budgetary allocation (O & M cost):		Rs. 2.00 lakhs						

28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	In minor quantity
	Disposal of the construction waste debris:	Top soil will be used for gardening purpose and excavated earth , debris will be used within the plot for re-filling and internal road development
Waste generation in the operation Phase:	Dry waste:	Ash: 4284 MT (During Season) & 664 MT(During Off Season)
	Wet waste:	ETP Sludge: 80 TPA
	Hazardous waste:	Spent Oil will be very minor
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Domestic sludge will be mixed into soil and disposed off
	Others if any:	Not any
Mode of Disposal of waste:	Dry waste:	The bagasse ash is usually rich in potash; hence, it will be directly applied into agriculture field or sold to the brick manufacturer as per their demand.
	Wet waste:	ETP sludge will be organic in nature; hence it is used as manure as a soil enriching materials.
	Hazardous waste:	Spent oil can be disposed off safely by giving it to authorized hazardous waste oil dealer. Alternatively, it will be burnt in the boiler along with bagasse.
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Domestic sludge will be mixed into soil and disposed off
	Others if any:	Not any
Area requirement:	Location(s):	--
	Area for the storage of waste & other material:	Approx. 1.5 acre
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 140.00 Lakhs
	O & M cost:	Rs. 5.00 Lakhs

29.Effluent Charecterestics					
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4 - 5.5	6.5 - 8.5	5.5 - 9.0
2	BOD	mg/lit	1500 - 3000	<30	30
3	COD	mg/lit	2500 - 60000	< 250	250
4	Total Dissolved Solids	mg/lit	1800 - 2500	< 2100	2100
5	Total Suspended Solids	mg/lit	600 - 800	< 100	100
Amount of effluent generation (CMD):		700 CMD			
Capacity of the ETP:		Existing capacity of ETP 500 CM which will be enhanced to treat the effluent of 700 CMD from proposed capacity			
Amount of treated effluent recycled :		Approx. 690 CMD			
Amount of water send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		Activated Sludge process			
Disposal of the ETP sludge		ETP sludge will be organic in nature; hence it is used as manure as a soil enriching materials.			

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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	lit/annum	110	50	160	Spent oil can be disposed off safely by giving it to authorized hazardous waste oil dealer. Alternatively, it will be burnt in the boiler along with bagasse.
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	Boiler (Existing 40 TPH X 2)	Bagasse- 12075 MT/M	1	65	3.5 m	90	
2	Boiler (Proposed 85 TPH)	Bagasse - 11625 MT/M	2	75	3.5 m	90	
32.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	Bagasse	12075 MT/M	11625 MT/M	23700 MT/M			
33.Source of Fuel		Own sugar gactory					
34.Mode of Transportation of fuel to site		Fuel is available within the factory hence transportation is not required					
35.Energy							
Power requirement:	Source of power supply :	Captive					
	During Construction Phase: (Demand Load)	From captive source					
	DG set as Power back-up during construction phase	Not applicable					
	During Operation phase (Connected load):	7.50 MW					
	During Operation phase (Demand load):	..					
	Transformer:	NA					
	DG set as Power back-up during operation phase:	DG set will be used only in case of total power failure i.e. captive as well as electricity board power supply					
	Fuel used:	Diesel					
	Details of high tension line passing through the plot if any:	NA					

Energy saving by non-conventional method:							
NA							
36.Detail calculations & % of saving:							
Serial Number	Energy Conservation Measures				Saving %		
1	NA				NA		
37.Details of pollution control Systems							
Source	Existing pollution control system				Proposed to be installed		
Boiler	Wet Scrubber				Electro Static Precipitator		
Budgetary allocation (Capital cost and O&M cost):		Capital cost:		NA			
		O & M cost:		NA			
38.Environmental Management plan Budgetary Allocation							
a) Construction phase (with Break-up):							
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)				
1	NA	NA	NA				
b) Operation Phase (with Break-up):							
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)			
1	Air Pollution Control Equipments	Electro Static precipitator	132	-			
2	Ash & Bagasse Handling	-	115	-			
3	Cooling Tower	-	180	-			
4	Fire Proection	-	25	5.0			
5	RCC Stack	-	100	-			
6	Greenbelt	-	14	1.50			
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:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	Category B: For Sugar: 5 (j), For Thermal Project: 1 (d)
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-07-2017

3. The proposal has been considered by SEIAA in its 129th 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 ensure compliance of the points mentioned in the Structural Stability Certificate.
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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	73 TPH boiler should have stack height of 68m and flue gases shall be passed through an ESP of 99.9% efficiency before being led into the 68 m stack.
III	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
IV	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
V	Proper Housekeeping programmers shall be implemented.
VI	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.
VII	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VIII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
IX	Arrangement shall be made that effluent and storm water does not get mixed.
X	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.
XI	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.
XII	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.
XIII	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 Dept.
XIV	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.

XV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XVI	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVII	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.
XVIII	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.
XIX	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XX	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 reported to the MPCB & this department
XXI	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
XXII	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.
XXIII	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.
XXIV	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.
XXV	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.
XXVI	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. SECRETARY MOEF & CC
2. IA- DIVISION MOEF & CC
3. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
4. REGIONAL OFFICE MOEF & CC NAGPUR
5. REGIONAL OFFICE MPCB NASHIK
6. REGIONAL OFFICE MIDC NASHIK
7. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
8. COLLECTOR OFFICE AHMEDNAGAR
9. COLLECTOR OFFICE JALGAON
10. COLLECTOR OFFICE DHULE
11. COLLECTOR OFFICE NANDURBAR
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