STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:May 7, 2019

To,
Sahakar Maharshi Shankarrao Mohite Patil Sahakari Sakhar Karkhana Limited, Shankarnagar, Taluka: Malshiras, District: Solapur.
at 13/1, 13/2, 28, 29, 30, 69/1/B, 70, 71/1, 71/2, 72/1, 73, 74, 80/3/A, 80/4, 80/5, 80/6/A, 80/9/A, 80/12, 80/13, 81/1, 81/2/A, 81/2/B, 81/3, 81/4, 81/5, 83/2/B, 93/2/A, 93/2/2 (partially), 94, 80/3/B, 82/2/B, 65/1B/2A, 66/2B.

Subject: Environment Clearance for Application for TOR for, Expansion/ Modernization of sugar factory capacity from 7500 TCD (313 TCH) to 10000 TCD (417 TCH).

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 159th (A) - Day-1th 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 165th 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	Expansion/ Modernization of sugar factory capacity from 7500 TCD (313 TCH) to 10000 TCD (417 TCH).
2.Type of institution	Private
3.Name of Project Proponent	Sahakar Maharshi Shankarrao Mohite Patil Sahakari Sakhar Karkhana Limited, Shankarnagar, Taluka: Malshiras, District: Solapur.
4.Name of Consultant	Dr. B. Subba Rao
5.Type of project	Others
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project/ Modernization.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, J-11011/ 297/ 2007- IA II (I).
8.Location of the project	13/1, 13/2, 28, 29, 30, 69/1/B, 70, 71/1, 71/2, 72/1, 73, 74, 80/3/A, 80/4, 80/5, 80/6/A, 80/9/A, 80/12, 80/13, 81/1, 81/2/A, 81/2/B, 81/3, 81/4, 81/5, 83/2/B, 93/2/A, 93/2/2 (partially), 94, 80/3/B, 82/2/B, 65/1B/2A, 66/2B.
9.Taluka	Malshiras
10.Village	Shankarnagar, Akluj.
11.Whether in Corporation / Municipal / other area	OTHER AREA
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 70278
13.Note on the initiated work (If applicable)	NA

14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	444150 sqm..
16.Deductions	70278
17.Net Plot area	373872
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**FSI area (sq. m.):** 70278
	Non FSI area (sq. m.): 373872
	Total BUA area (sq. m.): 444150
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)	373872
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0.8417
21.Estimated cost of the project	100000000

22.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	SUGAR	31200	6240	37440
2	REFINED SUGAR	7500	1500	9000
3	MOLASSES	9600	1920	11520
4	BAGASSE	70000	14000	84000
5	PRESSMUD	9600	1920	11520

23.Total Water Requirement

Dry season:	**Source of water**	Nira Right-bank Canal
	Fresh water (CMD):	2801
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2801
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	1500 m3/day
Wet season:	**Source of water**	NA
	Fresh water (CMD):	NA
	Recycled water - Flushing (CMD):	NA
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	NA
	Fire fighting - Underground water tank(CMD):	NA
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	NA	

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	220	0	220	44	0	44	176	0	176
Industrial Process	1981	0	1981	1050	0	1050	931	0	931

25.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10
	Size and no of RWH tank(s) and Quantity:	2 tanks-25m X 40m X 2.5m = 5000 cum.
	Location of the RWH tank(s):	Near E.T.P.
	Quantity of recharge pits:	0
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	6,00,000
	Budgetary allocation (O & M cost) :	65,000
	Details of UGT tanks if any :	NA
26.Storm water drainage	**Natural water drainage pattern:**	Surface Runoffs
	Quantity of storm water:	22488.96 cum.
	Size of SWD:	(1 X 0.5 X 0.3) m
27.Sewage and Waste water	**Sewage generation in KLD:**	320
	STP technology:	Septic Tank Followed by Anaerobic filters
	Capacity of STP (CMD):	10- 900 cum.
	Location & area of the STP:	individual STP at housing colony
	Budgetary allocation (Capital cost):	10 lakh
	Budgetary allocation (O & M cost):	50,000 per annum

28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 MT
	Disposal of the construction waste debris:	Filling low lying area and for construction of road work
Waste generation in the operation Phase:	**Dry waste:**	Refuse- 1 MT/ year, pressmud 10000 MT/month
	Wet waste:	Garbage- 3 MT/month
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	24 MT/year
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Refuse- recycling, Pressmud- Composting
	Wet waste:	Composting
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Manure
	Others if any:	NA
Area requirement:	**Location(s):**	Shankarnagar, Akluj
	Area for the storage of waste & other material:	20000 sqm.
	Area for machinery:	45883 sqm.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	8,00,00,000
	O & M cost:	1,00,00,000 per annum.

29.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	6.5-7	7.5	5.5-9
2	BOD	mg/l	800	23.25	<100
3	COD	mg/l	2000	58.125	<250
4	TSS	mg/l	400-500	14.53	<100

Amount of effluent generation (CMD):	Process effluent-750 CMD, Excess condensate-1500 CMD
Capacity of the ETP:	Process effluent-1000 CMD, Excess condensate- 1500 CMD
Amount of treated effluent recycled :	1500 CMD
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	preliminary treatment (Oil & Grease trap, flow meter), Equalization tank, Anaerobic Filter, Aeration tank, Secondary Clarifier, Sludge drying beds and 15 days treated storage tank for no demand period.
Disposal of the ETP sludge	As a manure after sludge drying

30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5 (1)	MT/Month	0.1	0	0.1	Mixed with bagasse and burnt in the boiler

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	during season	BAGASSE- 86400 MT/month	I	80	4	112 deg C

32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	BAGASSE	64800 MT/month	21600 MT/month	86400 MT/month
33.Source of Fuel		BAGASSE FROM SUGARCANE CRUSHING IN FACTORY		
34.Mode of Transportation of fuel to site		BY CONVEYOR BELT- SUGAR FACTORY TO CO-GEN BOILER		

35.Energy

Power requirement:	**Source of power supply :**	Own generation
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	16 MW
	During Operation phase (Demand load):	10 MW
	Transformer:	1) 3150 kVA - 5, 2) 4000 kVA- 2, 3) 3500- 2 and 4) 2500 kVA
	DG set as Power back-up during operation phase:	NA
	Fuel used:	Bagasse- 2970 MT/day
	Details of high tension line passing through the plot if any:	132 kVA

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
Process efffluent	Anaerobic followed by aerobic	NA
Condensate treatment	Cooling tower followed by aeration	NA

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	Fugitive emissions	Particulate matter	6

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Pollutant	Solid and liquid effluent and gaseous emission	300	50

39.Storage of chemicals (inflamable/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	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	16-02-2017

3. The proposal has been considered by SEIAA in its 165th 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 CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
II	PP to bring 100% sugarcane area under drip irrigation phasewise and also to undertake effective steps to increase per hector productivity of sugarcane instead of bringing additional aera under sugarcane cultivation so as to meet proposed crushing requirement.
III	PP to include water and carbon foot print in the moitoring of EMP.
IV	PP to use new and renewable energy for the illumination of office buidligns and stret lights.
V	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9th August, 2018.
VI	PP to submit CER plan to District Collector and submit the acknowledgement to Member Secretary, SEIAA.

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 Dept.
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 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. SO2, NOx (ambient levels as well as stack emissions) or critical sectorai 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.

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, 1stFloor, 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. MUNICIPAL COMMISSIONER PUNE

6. MUNICIPAL COMMISSIONER SATARA

7. REGIONAL OFFICE MPCB PUNE

8. REGIONAL OFFICE MIDC PUNE

9. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD

10. COLLECTOR OFFICE PUNE

11. COLLECTOR OFFICE SATARA

12. COLLECTOR OFFICE SOLAPUR