

Government of Maharashtra

SEAC-2013/CR-548/TC-2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annex,
Mumbai- 400 032.
Dated: 1st April, 2015

To,
Mr. Ranjeetsingh H.Naik Nimbalkar
A/p. Nimbhore, Tal. Phaltan,
Dist. Satara- 415523

Subject: Environment Clearance for Proposed 19.5 MW bagasse based co generation power plant at vill Upalve Tal Phaltan Satara by M/s. Swaraj India Agro Ltd (SIAL)

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 96th meeting and decided to 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 83rd meeting.

2. It is noted that the proposal is considered by SEAC-I under screening category 1(d) B1 as per EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of Project	19.5 MW Bagasse Based Co-generation Power Plant by M/s Swaraj India Agro Ltd. (SIAL)															
Project Proponent	Mr. Ranjeetsingh H.Naik Nimbalkar															
Consultant	MITCON Consultancy & Engineering Services Ltd.															
New Project / Expansion	New Project															
Activity schedule in the EIA Notification	1(d)															
Area Details	<ul style="list-style-type: none">• Total plot area (Acre.) : 63 (Karkhana Area)• Industrial Activity area (Acre.) : 33															
Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	<table border="1" style="margin-left: auto; margin-right: auto;"><thead><tr><th>Total Project Cost</th><th>Cogen Power (Rs. in Lakh)</th></tr></thead><tbody><tr><td>Land & Site Development</td><td>325.00</td></tr><tr><td>Civil works & Buildings</td><td>1320.00</td></tr><tr><td>Indigenous Plant and Machinery</td><td>8593.00</td></tr><tr><td>Miscellaneous Fixed Assets</td><td>250.00</td></tr><tr><td>Preliminary & Pre-Op.Expenses</td><td>833.00</td></tr><tr><td>Contingencies</td><td>113.00</td></tr></tbody></table>		Total Project Cost	Cogen Power (Rs. in Lakh)	Land & Site Development	325.00	Civil works & Buildings	1320.00	Indigenous Plant and Machinery	8593.00	Miscellaneous Fixed Assets	250.00	Preliminary & Pre-Op.Expenses	833.00	Contingencies	113.00
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		Margin on Working Capital	37.00		
		Total	11471.00		
Location details of the project :	<ul style="list-style-type: none"> • Latitude : 17°50'4.82"N • Longitude : 74°23'10.98"E • Location : Gat No. 332/B/2 At Village – Upalve, Tal – Phaltan, Dist. Satara • Elevation above Mean Sea Level: 724 meter 				
Raw materials (including process chemicals, catalysts, & additives).	List of raw materials to be used	'Physical and chemical nature of raw material	'Quantity (tonnes/year) full production capacity	Source of materials	Means of transportation (Source to storage site) with justification
	Bagasse	Fibrous material	Season (160 days) : 162355MT Off-season (55 Days): 42927MT	Proposed Sugar Factory	By conveyor belt with enclosed sheet
Production details	Name of Products, By products and Intermediate Products		Existing (T/Year)	Proposed activity (new/modernization/expansion) (T/Year)	Total (T/Year)
	Main Products: (Power)	Season (160 Days)	0	19.5 MW	
		Off-Season (55 Days)	0	19.5 MW	
	By-Products Intermediate Products: Ash	Season (160 Days)	0	3247 MT	4105 MT
Off-Season (55 Days)		0	858 MT		
Process details / manufacturing details	In power generation scheme, chemical energy of fuel is first converted into thermal energy (during combustion), which is then converted into mechanical energy (through a turbine) and finally into electrical energy (through a generator).				
Rain Water Harvesting (RWH)	In the factory premises roof top area will be determined and subsequently rain water harvesting potential will be calculated. However detailed design and engineering of the RWH system will be undertaken during implementation stage.				

Total Water Requirement	<p>Total water requirement: <ul style="list-style-type: none"> Fresh water (CMD) : 509 & Source: Banganga Dam Use of the water:</p> <table border="1" data-bbox="608 210 1342 555"> <thead> <tr> <th>Particulars</th> <th>Requirement (CMD)</th> </tr> </thead> <tbody> <tr> <td>Process</td> <td>10</td> </tr> <tr> <td>Cooling water</td> <td>102</td> </tr> <tr> <td>DM Water</td> <td>370</td> </tr> <tr> <td>Dust Suppression</td> <td>35</td> </tr> <tr> <td>Drinking</td> <td>27</td> </tr> <tr> <td>Green belt</td> <td>44</td> </tr> <tr> <td>Fire service</td> <td>5</td> </tr> <tr> <td>Others</td> <td>3</td> </tr> </tbody> </table>					Particulars	Requirement (CMD)	Process	10	Cooling water	102	DM Water	370	Dust Suppression	35	Drinking	27	Green belt	44	Fire service	5	Others	3
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Storm water drainage	Proper storm water drainage line will be provided to maintain the natural flow of storm water																						
Sewage generation and treatment	<ul style="list-style-type: none"> Amount of sewage generation (CMD) :22 Proposed treatment for the sewage : Generated sewage will be treated in package STP Capacity of the STP (CMD) (If applicable): 25 																						
Effluent characteristic	Sr. no	Parameters	Inlet effluent Characteristics	Outlet effluent Characteristics	Effluent Discharge Standards (CPCB)																		
	1	pH	4.01	7.25	5.5 -9																		
	2	TDS (mg/l)	1912	422																			
	3	TSS(mg/l)	236	30	200																		
	4	BOD(mg/l)	6486	22	100																		
	5	COD(mg/l)	2500	36																			
	6	Oil & Grease(mg/l)	28	6	10																		
	7	Chlorides (mg/l)	306	32																			
	8	Sulphates (mg/l)	161	22																			
ETP details	<ul style="list-style-type: none"> Amount of effluent generation (CMD) : 78 Capacity of the ETP (CMD) : 150 Amount of treated effluent recycled (CMD) : 140 																						
Note on ETP technology to be used	Activated Sludge process																						
Disposal of the ETP sludge (If applicable)	Generated ETP sludge used for green belt development and bio-composting purpose																						
Solid waste Management	Sr. No	Source	Qty (TPM)	Form (Sludge / Dry / Slurry etc.)	Composition																		
	2.	ETP	3	Sludge	NPK																		
	3.	Process	Ash-609	Dry	Silica																		
Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO, etc.)	Sr. No.	Pollutant	Source of Emission	Emission rate (kg/hr)	Concentration in flue gas (g/sec)																		

	1	SPM	Stack	850	0.13																	
	2	SO ₂	Stack	42	11.67																	
	3	NO _x	Stack	Concentration in flue gas will be 100 mg/Nm ³																		
	4	CO	Stack	NA	NA																	
Stack emission Details:	<table border="1"> <thead> <tr> <th>Plant Section & units</th> <th>Stack No.</th> <th>Height from ground level (m)</th> <th>Internal Diameter (Top)(m)</th> <th>Emission Rate (kg /hr)</th> <th>Temp. of Exhaust Gases (°C)</th> </tr> </thead> <tbody> <tr> <td>110 TPH Boiler</td> <td>1st</td> <td>82</td> <td>3.8</td> <td>850</td> <td>150</td> </tr> </tbody> </table>					Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(m)	Emission Rate (kg /hr)	Temp. of Exhaust Gases (°C)	110 TPH Boiler	1 st	82	3.8	850	150					
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Energy	<p>Power supply:</p> <ul style="list-style-type: none"> Existing power requirement: } Season : 6.36 MW Proposed power requirement: } Off-Season : 1.86 MW <p>DG sets:</p> <ul style="list-style-type: none"> Number and capacity DG sets to be used (existing and proposed) <p>Details of the non-conventional renewable energy proposed to be used : Yes</p> <p>Bagasse will be used : Season (160 Days) – 162355 MT Off-Season (55 Days) – 42927 MT</p>																																	
Green Belt Development	<ul style="list-style-type: none"> Green belt area (Acre.): 18 Number and species of trees to be planted : 6000 																																	
Details of Pollution Control Systems:	<table border="1" data-bbox="584 602 1430 1014"> <thead> <tr> <th>Sr. No.</th> <th></th> <th>Existing pollution control system</th> <th>Proposed to be installed</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Air</td> <td>--</td> <td>ESP</td> </tr> <tr> <td>2</td> <td>Water</td> <td>--</td> <td>ETP</td> </tr> <tr> <td>3</td> <td>Noise</td> <td>--</td> <td>Acoustic Enclosures will be provided</td> </tr> <tr> <td>4</td> <td>Solid Waste</td> <td>--</td> <td>It will be used in bio-composting</td> </tr> </tbody> </table>	Sr. No.		Existing pollution control system	Proposed to be installed	1	Air	--	ESP	2	Water	--	ETP	3	Noise	--	Acoustic Enclosures will be provided	4	Solid Waste	--	It will be used in bio-composting													
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Environmental Management plan Budgetary Allocation	<ul style="list-style-type: none"> Capital cost (With break up): 683 Lakhs O&M cost (With break up): 161 Lakhs <p>During Construction Phase</p> <table border="1" data-bbox="651 1238 1414 1554"> <thead> <tr> <th>Sr. No</th> <th>Name of Activity</th> <th>Cost in INR , Lakhs</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sanitation</td> <td>2.00</td> </tr> <tr> <td>2</td> <td>Potable water requirement for workers</td> <td>2.00</td> </tr> <tr> <td>3</td> <td>Health Care , Safety</td> <td>3.00</td> </tr> <tr> <td colspan="2">Total</td> <td>7.00</td> </tr> </tbody> </table> <p>During Operation Phase</p> <table border="1" data-bbox="624 1610 1449 1975"> <thead> <tr> <th>No.</th> <th>Particulars</th> <th>Cost in INR, Crore</th> </tr> </thead> <tbody> <tr> <td colspan="3">One Time Installation Cost (Capital Cost)</td> </tr> <tr> <td>1</td> <td>Air Pollution Control System (ESP, Stack)</td> <td>4.0</td> </tr> <tr> <td>2</td> <td>Noise Control Systems</td> <td>1.25</td> </tr> <tr> <td>3</td> <td>Green Belt Development</td> <td>0.08</td> </tr> <tr> <td>4</td> <td>Environmental Lab</td> <td>0.75</td> </tr> </tbody> </table>	Sr. No	Name of Activity	Cost in INR , Lakhs	1	Sanitation	2.00	2	Potable water requirement for workers	2.00	3	Health Care , Safety	3.00	Total		7.00	No.	Particulars	Cost in INR, Crore	One Time Installation Cost (Capital Cost)			1	Air Pollution Control System (ESP, Stack)	4.0	2	Noise Control Systems	1.25	3	Green Belt Development	0.08	4	Environmental Lab	0.75
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	EIA Submitted (If yes then submit the salient features)	<p>Yes. EIA report is prepared as per Model TOR & Generic Structure prescribe in EIA notification 2006</p> <ul style="list-style-type: none"> • Period of data collected : 1st March 2014 to 31st May 2014 • Details of the primary data collection (i.e. location of the sample collection, number of visit etc.). <table border="1"> <thead> <tr> <th>Location Code</th> <th>Station Name</th> <th>Distance From Project Site (km)</th> <th>Direction</th> <th>Upwind/Downwind</th> </tr> </thead> <tbody> <tr> <td>AAQ-1</td> <td>Project Site</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>AAQ-2</td> <td>Gadewadi</td> <td>1.6</td> <td>SE</td> <td>Downwind</td> </tr> <tr> <td>AAQ-3</td> <td>Kulakjai</td> <td>3.8</td> <td>S</td> <td>Crosswind</td> </tr> <tr> <td>AAQ-4</td> <td>Palwan</td> <td>3.7</td> <td>E</td> <td>Downwind</td> </tr> <tr> <td>AAQ-5</td> <td>Upalve</td> <td>3.5</td> <td>N</td> <td>Cross Wind</td> </tr> <tr> <td>AAQ-6</td> <td>Veloshi</td> <td>2.8</td> <td>W</td> <td>Upwind</td> </tr> </tbody> </table>			Location Code	Station Name	Distance From Project Site (km)	Direction	Upwind/Downwind	AAQ-1	Project Site	-	-	-	AAQ-2	Gadewadi	1.6	SE	Downwind	AAQ-3	Kulakjai	3.8	S	Crosswind	AAQ-4	Palwan	3.7	E	Downwind	AAQ-5	Upalve	3.5	N	Cross Wind	AAQ-6	Veloshi	2.8	W
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3. The proposal has been considered by SEIAA in its 83rd 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 :

- (i) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (ii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (iii) Regular monitoring of the air quality, including SPM & SO₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (iv) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
- (v) Proper Housekeeping programmes 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 achieved.
- (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) Leq of 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 conform 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) The company shall undertake following Waste Minimization Measures :
 - Metering of quantities of active ingredients to minimize waste.
 - Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
 - Maximizing Recoveries.
 - Use of automated material transfer system to minimize spillage.

- (xix) 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.
 - (xx) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
 - (xxi) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
 - (xxii) Separate silos will be provided for collecting and storing bottom ash and fly ash.
 - (xxiii) 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
 - (xxiv) 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>
 - (xxv) 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.
 - (xxvi) 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.
 - (xxvii) 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, NO_x (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.
 - (xxviii) 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.
 - (xxix) 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. The Environment department reserves the right 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.
6. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.
7. 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.
8. 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.
9. Any appeal against this environmental 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.


(Ajoy Mehta)
Principal Secretary,
Environment department &
MS, SEIAA.

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune – 411014. .
3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Pune.
7. Collector, Satara

8. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.

9. Select file (TC-3)

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