

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department, Room No. 217, 2nd floor, Mantralaya, Annexe, Mumbai- 400 032. Date:May 12, 2017

Mr. Pradip Yelave at D - 122

Environment Clearance for Proposed Greenfield project of R&D, Pilot plant for food and non-food additives **Subject:** 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 th 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 Meeting Number 111th meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category 5 (f) as per EIA Notification 2006.

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

Differ information of the project s	distributed by you is as below.						
1.Name of Project	Privi Biotechnologies Private Limited						
2.Type of institution	Private						
3.Name of Project Proponent	Mr. Pradip Yelave						
4.Name of Consultant	Goldfinch Engineering Systems Private Limited						
5.Type of project	Not applicable						
6.New project/expansion in existing project/modernization/diversification in existing project New Project							
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable						
8.Location of the project	D - 122						
9.Taluka	Thane						
10.Village	Nerul						
11.Whether in Corporation / Municipal / other area	Navi Mumbai						
	Not applicable						
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: Not applicable						
	Approved Built-up Area: 1104						
13.Note on the initiated work (If applicable)	Not applicable						
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable						
15.Total Plot Area (sq. m.)	2100 Sq.m.						
16.Deductions	Not applicable						
17.Net Plot area	Not applicable						
10 (a) December 1 Decit and Associated	FSI area (sq. m.): Not applicable						
18 (a).Proposed Built-up Area (FSI & Non-FSI)	Non FSI area (sq. m.): Not applicable						
	Total BUA area (sq. m.): Not applicable						
10 (b) Ammound Devillens	Approved FSI area (sq. m.):						
18 (b).Approved Built up area as per DCR	Approved Non FSI area (sq. m.):						
	Date of Approval:						
19.Total ground coverage (m2)	Not applicable						

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Secretary SEIAA)

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Shri. Anil Diggikar (Member

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	130000000



22.Production Details								
Serial Number	Proc	duct	Existing (MT/M)		Proposed (MT/M)	Total (MT/M)		
1	like a. V	fragrances anillin b. esters	N	TA.	20 kg/batch	20 kg/batch		
2	Food additives and nutraceuticals like a. Xylitol b. Fatty Acids c. Mono & diglycerides etc.		NA		50 kg/batch	50 kg/batch		
3	Biopol	lymers	N	Ā	50 kg/batch	50 kg/batch		
		2	3.Tota	I Wate	r Requiremen	t		
		Source of		Not applica		-		
		Fresh wate	er (CMD):	Not applica	ble			
		Recycled v Flushing (vater - CMD):	Not applica	ble			
		Recycled w Gardening	ater - (CMD):	Not applica	ble	7		
		Swimming make up (Cum):	Not applica	ble	Fig.		
Dry seasor	1:	Total Wate Requirement	er ent (CMD)	Not applicable				
		Fire fighting Undergroutank(CMD)	nd water	Not applicable				
	Fire fighti Overhead tank(CMD		water	Not applica	ble			
		Excess trea	- m(1)	Not applica	ble			
		Source of	1 122	Not applica		<u> </u>		
		Fresh water		Not applica	ble	1		
		Recycled v Flushing (CMD):	Not applicable				
		Recycled w Gardening	(CMD):	Not applicable				
		Swimming make up (Cum):	Not applicable				
Wet season	Wet season:		ent (CMD)	Not applicable				
		Fire fighting Undergrout tank(CMD)	nd water):	Not applicable				
		Fire fighting Overhead tank(CMD)	water	Not applicable				
		Excess trea	ated water	Not applica	ble			
Details of pool (If an		Not applica	ble					

24.Details of Total water consumed												
Particula rs	Consu	mption (CN	AD)		Loss (CMD)	Effl	uent (CMD)				
Water Require ment	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total			
Domestic	0	4	4	0	1	1	0	3	3			
Industrial Process	0	9	9	0	1	1	0	8	8			
Cooling tower & thermopa ck	0	76.2	76.2	0	71(29 CMD)	71(29 CMD)	0	5.20	5.20			
Gardening	0	4	4	0	4	4	0	0	0			
Fresh water requireme nt	0	93.2	93.2	O	UMU A	777	0	16.2	16.2			
		<	$\langle \mathcal{L} \rangle$		9, 31, 11, 4, 697)	7						
		Level of water ta	the Gr ble:	ound N	ot Applicable	33.						
		Size and tank(s) a Quantity	and C	RWH N	ot Applicable	ब्रिट	3					
		Location tank(s):	of the	RWH N	Not Applicable							
25.Rain V Harvestii	Water	Quantity pits:	of rec	harge N	Not Applicable							
(RWH)	3	Size of r	echarg	e pits N	Not Applicable							
		Budgeta (Capital	ry allo cost) :	cation N	Not Applicable							
		Budgeta (O & M (ry allo cost) :	cation N	Not Applicable							
		Details of if any:	of UGT	tanks N	ot Applicable	China Control						
				M	())JU(())Fr	W						
20.01		Natural drainage		r n:	Proper and separate storm water drains available, as per natural slope							
26.Storm drainage		Quantity water:	of sto	rm N	Not Applicable							
		Size of S	WD:	N	ot Applicable	:						
	Sewage generation in KLD:			3	3 KLD							
		STP tech			treat in combine ETP							
27 Sowa	hre and	Capacity (CMD):			Not Applicable							
27.Sewa Waste w	ater	the STP:		IN	Not Applicable							
		Budgeta (Capital	ry allo cost):	cation	ot Applicable							
		Budgeta (O & M o	ry allo cost):	cation	ot Applicable							

	28.Solie	d waste Management
Waste generation in	Waste generation:	Not Applicable
the Pre Construction and Construction phase:	Disposal of the construction waste debris:	Not Applicable
	Dry waste:	E -waste
	Wet waste:	Empty barrels, bottles and containers Solid waste from process Solid waste from con. technique Solid adsorbent resins
Waste generation	Hazardous waste:	Not Applicable
in the operation Phase:	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
	Dry waste:	Not Applicable
	Wet waste:	Send to MWML and Sold to authorized recyclers
	Hazardous waste:	Not Applicable
Mode of Disposal of waste:	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
	Location(s):	Building Area
Area requirement:	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	1104 Sq. Mt.
Budgetary allocation	Capital cost:	5.5 Cr.
(Capital cost and O&M cost):	O & M cost:	Not Applicable

		29.Ef	fluent Charecter	estics			
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)		
1	рН	-	6-7	6-7	6 - 9		
2	COD	mg/lit	4500 - 7500	200 - 250	< 250		
3	BOD	mg/lit	1500 - 3500	80 - 100	< 100		
4	TDS	mg/lit	5000 - 7000	5000 - 7000	< 2100		
5	TSS	mg/lit	80 - 120	10 - 20	< 100		
Amount of e	effluent generation	16.20 CMD					
Capacity of	the ETP:	21 CMD					
Amount of trecycled:	reated effluent	45 CMD					
Amount of v	water send to the CETP:	Its Zero Liquid Discharge					
Membershij	p of CETP (if require):	Yes					
Note on ET	P technology to be used	Liquid effluents will be treated in effluent treatment plant of capacity 21 CMD, fed to RO and evaporator to achieve Zero Liquid Discharge (ZLD)					
Disposal of	the ETP sludge	Not Applica	ble	78.			



	30.Hazardous Waste Details								
Serial Number	Descr	iption	Cat	UOM	Existing	Proposed	Total	Method of Disposal	
1	Empty barrand cor	rels, bottles ntainers	NA	Nos. / year	NA	500	500	Sold to authorized recyclers	
2	E -w	vaste	NA	Kg / year	NA	100	100	Sold to authorized recyclers	
3		aste from cess	NA	Kg / year	NA	7200	7200	Used as manure / send to authorized recyclers	
4		e from con. nique	NA	Kg / year	NA	3000	3000	Send to MWML, Taloja	
5	Solid adsor	rbent resins	NA	Kg / year	NA	800	800	Send to incineration	
			31.S	tacks em	ission D	etails		ı	
Serial Number	Section	& units	Qua	sed with intity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases	
1	Boiler (Nor	ı IBR) Kg/hr	or $FO = 9$	9.68 SCM/hr 6.26 Kg/hr 86.23 Kg/hr	1	30	0.40	275 deg. cel.	
2		luid Heater IBR)	LDO =	68 SCM/hr, 6 Kg/hr, = 6 Kg/hr	1	30	0.40	275 deg. cel.	
3	DG	KVA		60 Kg/hr	5 6 1	3.5	0.40	150 deg. cel.	
		M	32.De	tails of F	uel to b	e used	6		
Serial Number	Туг	e of Fuel		Existing	70	Proposed		Total	
1	(CNG or	프	00	1	09.68 SCM/h	ır	109.68 SCM/hr	
2		FO or		00	00 90.26 Kg/hr 90.26 K			90.26 Kg/hr	
3		LDO		00 86.23 Kg/hr 86.23 Kg/hr					
4		for DG set	J16	00 60 Kg/hr 60 Kg/hr					
Source of F				n market/ out	Sider fuel c	ompanies	7		
Mode of Tra	ansportation	of fuel to sit	e By R	oad	3	Why.	_		
			74	23 E	nergy	W_			
		Source of	nower		iergy				
		supply:	power	MSEDCL					
		During Co Phase: (De Load)	nstruction emand	NA	ma	ni	U.	F	
		DG set as back-up du constructi	iring on phase	NA					
Dox	During Operation phase (Connecte load):		eration nnected	427 KW					
require	During Operation phase (Demand load):		eration mand	382 KW					
	Transformer:		er:	500 KVA					
back-up		DG set as I back-up di operation	ıring	315 KVA	315 KVA				
		Fuel used:		LDO					
		Details of tension lin through th any:	e passing	NA					
		34.Ene	ergy savi	ng by no	n-conver	ntional m	ethod:		

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NA									
		ı	36.Detail calcu	lations	& % of s	aving:			
Serial Number		Energy Cor	nservation Measures	3		Sav	ring %		
1			NA				NA		
			7.Details of pol		control S	ystems			
Source	_	Existing po	llution control syste	em		Proposed t	o be install	ed	
Boiler (1500 kg/hr.))		NA			Stack of	30 m. height		
Thermopack (50,000 kcal/hr.)	2		NA			Stack of	30 m. height		
D G Set (315 KVA)			NA NA	YHAY	Stac	k of 3.5 m heig	ht, acoustic	enclosure	
Budgetary (Capital O&M	cost and	Capital c	4)	ग्री अविश		Z			
38	.Envir	onmer	ital Manage	ment	plan B	udgetar	v Alloca	ation	
			Construction				,		
Serial Number	Attı	ributes	Parameter		Total	Cost per ann	ım (Rs. In I	Lacs)	
1		NA	NA	135/		NA			
		B	b) Operation P				7		
Serial Number	Com	ponent	Description	Ca	pital cost Re Lacs	s. In Opera	ational and cost (Rs. in	Maintenance Lacs/yr)	
1		tion control	Stack		2.00	0.14			
2		Pollution ontrol	ETP, MEE & RO		102.00	EX	12.0	0	
3	conti	pollution rol, Env. nitoring		Acostic enclosure to 325 KVA D G set 1.8			3.4		
4	Occupat	ional health	First aid rooms 7.60				2.0		
5	Gre	en belt	Green belt development 2.00				0.30)	
6		rdous waste & Disposal	Transport and disp	Transport and disposal 0.20			23.00		
7		lous waste & disposal	Transport and disposal 2.00			4.60			
8		activity	Education, healthc infrastructure development	ш	NA	11 (35.0		
39.S	torage	e of ch	emicals (inf sub	lamak	ole/expl	osive/ha	zardou	s/toxic	
Descrij		Status	Location	Storage Capacit in MT	Maximum Quantity of	Consumption / Month in MT		Means of transportation	
Alcohol	water	Liquid	Barrel	5000 kg	5000 kg	840 kg/batch	Local	By Road	
Sulfuric ac	id (30 %)	Liquid Barrel		200 kg	200 kg	11.5 (70%) kg/batch	Local	By Road	
Nitric Aci	d (70%)	Liquid	Barrel	200 kg	200 kg	11.5 (70%) kg/batch	Local	By Road	
Hydrochlo	oric acid	Liquid	Barrel	200 kg	200 kg	11.5 (70%) kg/batch	Local	By Road	
Sodium Hy		Liquid	Barrel	500 kg	500 kg	32 kg/batch	Local	By Road	
Sodium ca	rbonate	Liquid	Barrel	500 kg	500 kg	32 kg/batch	Local	By Road	

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Potassium hydroxide	Liquid	Barrel	500 kg	500 kg	32 kg/batch	Local	By Road
40.Any Other Information							
No Information Availa	ble						



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	5 (f)
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	25-08-2016

^{3.} The proposal has been considered by SEIAA in its Meeting Number 111th 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:

General Conditions:

I	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
п	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.
Ш	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.

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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. SO2, NOx (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.



- 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 THANE
- **6.** MUNICIPAL COMMISSIONER BHIVANDI-NIZAMPUR
- 7. MUNICIPAL COMMISSIONER KALYAN-DOMBIVALI
- 8. REGIONAL OFFICE MPCB KALYAN
- 9. REGIONAL OFFICE MPCB THANE
- 10. REGIONAL OFFICE MIDC AMBERNATH
- 11. REGIONAL OFFICE MIDC THANE
- 12. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
- 13. COLLECTOR OFFICE THANE

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