	CLEARANCE	Ministry of Environme (Issued by the State En	nment of India nt, Forest and Climate Change vironment Impact Assessment EIAA), Maharashtra)
			, Turbhe, Navi Mumbai400705
	nteractive, w H ub)	in respect of project submitted to	ication 2006-regarding oplication for Environmental Clearance (EC) o the SEIAA vide proposal number 2021. The particulars of the environmental
PARIVESH	and Responsive Facilitation by Interactive, ous Environmental Single-Window Hub)	 EC Identification No. File No. Project Type Category Project/Activity including Schedule No. Name of Project 	EC22B021MH162925 SIA/MH/IND3/70088/2019 New B1 5(f) Synthetic organic chemicals industry (dyes & dye intermediates; bulk Expansion project in manufacturing capacity of Ethanolamines & Alkanolamines, Morpholines & Morpholine Oxide, Ethoxylates and Propoxylates from 1730 MT/M to 2730
Δ.	rvi	7. Name of Company/Organization	AMINES AND PLASTICIZERS LIMITED
	d F	8. Location of Project 9. TOR Date	Maharashtra 10 Feb 2020
	(Pro-Active and and Virtuous		conditions are appended herewith from page (e-signed) Manisha Patankar Mhaiskar Member Secretary SEIAA - (Maharashtra)
	Andresh Andresh		e shall be one that has EC identification PARIVESH.Please quote identification re.

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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/IND3/70088/2019 Environment & Climate Change Department Room No. 217, 2nd Floor, Mantralaya, Mumbai- 400032.

То

M/s. Amines and Plasticizers Ltd., Plot No. D-21/21 A, TTC Industrial Area, Turbhe, Navi Mumbai, Dist. Thane

> Subject : Environment Clearance for Expansion project in manufacturing capacity of Ethanol amines & Alkanolamines, Morpholines & Morpholine Oxide, Ethoxylates and Propoxylates from1730 MT/M to 2730 at Plot No. D-21/21 A, TTC Industrial Area, Turbhe, Navi Mumbai, Dist. Thane by M/s. Amines and Plasticizers Ltd.

Reference : Application no. SIA/MH/IND3/70088/2019

This has reference to your communication on the above-mentioned subject. The proposal was considered by the SEAC-1 in its 205th & 215th meeting under screening category 5(f) as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 239th (Day-2) meeting of State Level Environment Impact Assessment Authority (SEIAA).

Z. Ditci information of	the project submitted by you is as below
1.Name of Project	Amines and Plasticizers Ltd.
2.Type of institution	Private
3.Name of Project	S. V. Badhe
Proponent	
4.Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Synthetic Organic chemical Industry; 5 (f); Category B-1
6.New project/expansion	Evenencies in existing project
in existing project	Expansion in existing project
/modernization/diversifica	
tion in existing project	
7.If expansion	
/diversification, whether	No.
environmental clearance	
has been obtained for	
existing project	
8.Location of the project	D-21/21 A, TTC Industrial Area, Turbhe, Navi Mumbai,
9.Taluka	Thane
10.Village	Turbhe

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

Correspondence Name:	S. V. Ba	dhe			
Room Number:		D-21/21 A,	<u> </u>		
Floor:	NA	<u> </u>	<u></u>		
Building Name:	NA				
Road/Street Name:		ustrial Area,			
		usulai Arca,	1		
Locality:	Turbhe, Navi Mu	una hai			
City: 11.Whether in		,, _,			
Corporation / Municipal /	TTC Ind	ustrial Area, Turbhe			
other area					
	NA				
12.IOD/IOA/Concession/		A/Concession/Plan Approva	al Number NA		
Plan Approval Number		d Built-up Area: 14983.62			
13.Note on the		u built-up Alea. 14985.02	1		
initiated work (If	NA	· · · · · · ·			
applicable)					
14.LOI / NOC / IOD					
from MHADA/	NA	I			
Other approvals (If					
applicable)					
15.Total Plot Area (sq.	73315				
m.)		·			
16.Deductions	NA				
17.Net Plot area	NA		· · · · · · · · ·		
	a) FSI area (sq. m.): NA				
18 (a).Proposed Built-up	b) Non FSI area (sq. m.): NA				
Area (FSI & Non-FSI)	c) Total BUA area (sq. m.): 14983.621				
	Approved FSI area (sq. m.): N.A				
18 (b).Approved Built up	Approved Non FSI area (sq. m.): N.A				
area as perDCR	Date of Approval: 03-07-2018				
19.Total ground	12325.474				
coverage (m2)			· · · · · · · · · · · · · · · · · · ·		
20.Ground-coverage	100				
Percentage (%) (Note:	16.8				
Percentage of plot not					
open to sky)	2250000				
21.Estimated cost of the	23500000				
project 22 N	l	huildings & its configurat	ion		
22.IN	umper of	buildings & its configurat			
Serial Building Nan	ne &	Number of floors	Height of the building		
number number			(Mtrs)		
1 NA		NA	NA		
23.Number of NA					
		·			

tenants a	nd	1		· · · · · · · · · · · · · · · · · · ·					
shops									
24.Numbe	er of				· · · · · · · · · · · · · · · · · · ·				
expected		NA							
residents /users									
25.Tenan	 t								
density pe		NA							
hectare									
26.Height	t of								
thebuildi									
27.Right				·					
(Width of									
road from		6 m							
nearest fi									
station to									
proposed	ιnç								
building(s	6			X					
28.Turni									
radius for									
access of									
tender	me	9 m							
movemen	t from								
all aroun		4							
building									
excluding	the								
width for									
plantatio									
29.Existin									
structure		NA							
any	(-)								
30.Details	of				и				
the	,								
demolitio	n	NA							
with disp									
(If									
applicabl	e)								
	·		31.Producti	on Details					
Serial			T : /:						
Numbe P		roduct	Existing	Proposed	Total				
r			(MT/M)	(MT/M)	(MT/M)				
		lamines/							
		lamines:							
		1.							
		hanolami							
		e 2.							
		nolamine							
		3.							

	Triethanolamine			
- N.	-85%			
1	4.	980	750	1730
	4. Triethanol			
	amine-			
	1			
	Pure 5. N-			
	Methylethanolam			
	ine 6.			
	Methyl			
	Diethanolamine			
	7. Di Methyl			
	Ethanolamine		н. На страната страната На страната с	
	8. Di			
	Ethyl	.!		
	Ethanolamine			
	9. N-			
	Ethylethanolamin			
	e 10.Ethyl			
	Diethanolamine			
	11. N-Propyl			
	Ethanolamine	$\Delta_{\rm c}$		
	12. N- Propyl			
	Diethanolamine			
	13. 2-			
	Piperidinoethanol			
	14.Poly			
	Ethanolamine	<u> </u>		
	Morpholines			
	and Morpholine			
	Oxide: 1.			
	Morpholine 2.			
	N-			
	Methyl		• • •	
2	Morpholine 3.	250	250	500
	N- Methyl			
	Morpholine			· .
	Oxide-50% 4.			
	N- Methyl			
	Morpholine			
	Oxide-60% 5.			
	N-Ethyl			
	Morpholine 6.			
	N-			
	Formyl			
	Morpholine 7.			
	Hydroxy			
	Ethyl			· · · · · · · · · · · · · · · · · · ·
	Morpholine			
1	8. N-2-			
1			1	

.

	hvi								
	hyl Iidine								
r yno									
Ethoxy	lates &		· · ·						
	cylates:								
	ropanol								
	solution								
1 1	2. Di				λ				
	hyl								
	anolami	1							
	· • •	00	0	500					
% 3	. Di				4.				
	ıtyl		· ^ ·						
	amine 4.								
	enoxy								
	nol 5.								
	tiary								
	ıtyl								
1	nolami								
1 1	6.								
	yl Di Danolam								
	e 7.								
	pylene /								
	hylene								
	8.Block								
	lymers								
	ase 4303,								
	lease,								
	30,								
Rheolea	se 4822)			l					
32.Total Water Requirement									
	Source of water	NA							
[Fresh water	NA							
	(CMD):								
	Recycled water -	NA							
	Flushing								
	(CMD):			•					

	Recycled water -	NIA
	Gardening	NA
	(CMD):	
Dry season:	Swimming pool make	NA
	up (Cum):	
	Total Water	NA
	Requirement (CMD)	
· · · · · ·	:	
	Fire fighting -	NA
	Underground water	
	tank(CMD):	
	Fire fighting -	NA
	Overhead water tank(CMD):	
	Excess treated	NA
	water	
	Source of water	NA
	Fresh water (CMD):	NA
	Recycled water -	NA
	Flushing (CMD):	
	Recycled water -	NA
	Gardening	
Wet season:	(CMD):	
	Swimming pool make	NA
	up (Cum):	
	Total Water	NA
	Requirement (CMD)	
	:	
	Fire fighting -	NA
	Underground water	
	tank(CMD):	
	Fire fighting - Overhead water	NA
	tank(CMD):	
	Excess treated	NA
Details of	water	I
Swimmingpool	NA	
(If any)	1	

Page 7 of 27

<u> </u>		33	.Details	of Total	water cons	umed			<u> </u>	
Particul a rs	Consumption (CMD)				Loss (CMI))	Effluent (CMD)			
Water Require ment	Existi ng	Propose d	Tota l	Existi ng	Propose d	Tot al	Existin g	Propo sed	Tot al	
Domestic	15	5	20	0	0	0	15	5	20	
Industrial Process	80	40	120	20	10	30	60	30	90	
Cooling tower & thermopa ck	125	150	275	105	125	230	20	25	45	
Gardenin g	40	107	147	40	107	147	0	0	0	
Fresh water requireme nt	260	302	562	165	242	407	95	60	155	
		Level of th Groundw: table:		Pre Monsoon season: 0.5 to 14.6 mgbl; Post Monsoon season: 1.2 to 6.9 mbgl						
		Size and n RWH tank and Quant	x(s)	Quantity of rainwater: 43.82 m3/day; Capacity of RWH Tank: 50 m3.						
34.Rain Water		Location o RWH tank		Near to Workshop.						
Harvestin (RWH)	g	Quantity of rechargepits: Size of recharge pits: Budgetary allocation (Capital cost) :		NA						
				NA						
				500000						
		Budgetary allocation (M cost) :		50000						
	· · · · · · · · · · · · · · · ·			Fire Fighting tank: 1100 m3RWH Tank: 50 m3						
35.Storm		Natural wa drainage pattern:	ater	Slope is towards the entry gate no. 2, the Storm Water Drainage is designed accordingly.						
water drainage		Quantity o storm wate		5393.23 m3/hr						
		Size of SW	/D:	Top Width: 1.52 m, Bottom width: 0.91, Depth: 1.22 m						

	Sewage generation in KLD:	20
Sewage and	STP technology:	Sewage generated from daily activities after expansion will be treated in aeration tank of ETP.
Waste water	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	500000
	Budgetary allocation (O & M cost):	5000
	6.Soli	d waste Management
Waste	Waste generation:	137 Ton of construction waste will be generated.
generation in the Pre Construction and Construction phase:	Disposal of the construction wastedebris:	The inert recyclable wastes such as iron roads, wooden flanks, cardboards, plastic materials will be segregated and sold to recyclers. The excavated soil will be used for green belt/area development activities within premises.
	Dry waste:	Paper Waste: 150 kg/month, Decontaminated empty barrels / containers: 2000 units/month
	Wet waste:	NA
Waste generation in the operation	Hazardous waste:	Used/Spent oil: 2.1 T/A, Chemical sludge: 3.76 T/A, Oily sludge emulsion: 3.15 T/A, Process waste: 900 T/A, Spent ion exchange resins: 2 KL/A, Contaminated cotton rags or other cleaning materials 1.7 T/A
Phase:	Biomedical waste (If applicable):	1. Soiled Waste: Category-Yellow, Quantity- 1 T/A; 2. Expired Medicines: Category-Yellow, Quantity-0.5 T/A
4 1	STP Sludge (Drysludge):	NA
	Others if any:	E-Waste: 1. Personal Computers: Category-ITEW2, Quantity-0.1 T/A; 2. Personal Computing-Laptop computers: Category-ITEW, Quantity-0.1 T/A; 3. Printers including cartridges: Category-ITEW6, Quantity-0.5 T/A;
		4. Telephones: Category-ITEW12, Quantity-0.5 T/A. Battery Waste: Lead batteries from DG Sets, UPS system: Quantity-0.2 T/A
	Dry waste:	MPCB authorized recyclers

		Wet was	te:	NA	· · · · · · · · · · · · · · · · · · ·			
Mode of	- f	Hazardous waste:		The recyclable/ reprocessable hazardous waste will be sent to authorised recyclers/co-processing and the rest will be disposed through CHWTSDF.				
waste:		Biomedical waste (If applicable):		Disposal to CBMV	WTF/MPCB authori	sed processor		
STP Sluc (Drysluc Others i			0	ge _{NA}				
				E waste Sale to MPCP outhorized recycler / rote				
		Location	1(s):	Near ETP Area an	d near Morpholine	plant		
Area requirement: Area for storage of & other material		of waste	Area of 35 sq. m. will be demarcated for storage of hazardous waste.					
		Area for machine		NA				
Budgetar	•	Capital	cost:	NA				
allocation (Capital and O&N	cost	0 & M	cost:	15,00,000				
	,	ļ	37.Ef	fluent Charectere	stics			
Serial Numbe r	Par	ameters	Unit	Inlet Effluent Charecteres tics	Outlet Effluent Charecteres tics	Effluent discharge standards (MPCB)		
1	Total Su Solids	spended	mg/l	136	27	100		
2	pН		-	9.5	7.5	6.5 to 8.5		
3	BOD (3 27*C)	days	mg/l	2722	12	30		
4	COD		mg/l	7499	44	250		
5	TDS		mg/l	2286	743	2100		
6	Oil & Gi	rease	mg/l	9.8	1.1	10		
Amount o generation			155					
Capacity of the ETP: 240			240					
Amount o effluentre			74.99		1			
Amount of water send to the 80 CETP:								
				has membership of	CETP Thane Belap	ur Association		

Note on E be used	TP technology to	seconda followe	ry and ter	tiary treatn litional eff		tra-filtrati	n Primary, on shall be d expansion will	
Disposal o	of the ETP sludge	CHWTS	SDF.		ing sludge	will be di	sposed to	
	1	8.Ha	zardous	Waste De				
Serial Numbe r	Description	Cat	UOM	Existin g	Propos ed	Total	Method of Disposal	
1	Used/spend Oil	5.1	T/A	1. 2	0. 9	2. 1	Sell to authori zed recycle r	
2	Chemical sludge from waste water treatment	35.3	T/A	2.16	1. 6		CHWTSDF/Co- processing	
3	Oily sludge Emulsion	35.4	T/A	1. 8	1.35	3.15	CHWTSDF	
4	Process Waste (Sodium Sulphate)	36.1	T/A	90 0	0	90 0	CHWTSDF	
5	Spent ion exchang eResin	35.2	KL/A	2	0	2	CHWTSDF	
6	Contaminated cotton rags or other cleaning materials	33.2	T/A	1. 2	0. 5	1. 7	CHWTSDF	
		39.S	tacks em	ission De	tails			
Serial Number	Section & units	Fuel Used		Stack No.	Heigh t from groun d level (m)	Interna l diamete r (m)	Temp. of Exhaust Gases	
1	Steam Boiler 10 T/Hr	Р	PNG		30	1	170	
2	Steam Boiler 12 T/Hr	PNG		1	30	1	170	
3	Steam Boiler 10 T/Hr. (Standby: This will replace	Р	NG	1	30	1	170	

	existing briquette boiler)					
4	Thermic Fluid Heater - 6 lakh Kcal/Hr. (To be discontinued)	PNG	2	30	0.4	180
5	Thermic Fluid Heater - 10 lakh Kcal/Hr. (To be discontinued)	PNG	2	30	0.4	180
6	Thermic Fluid Heater 1 lakh Kcal/Hr. (Standby; Existing LDO fired TFH will be converted into PNG fired TFH)	PNG	2	30	0.4	180
7	Thermic Fluid Heater 2 lakh Kcal/Hr. (Existing LDO fired TFH will be converted into PNG fired TFH)	PNG	2	30	0.4	180
8	Thermic Fluid Heater 12 lakh Kcal/Hr. (To be replaced by PNG fired TFH)	PNG	2	30	0.4	180
9	Thermic Fluid Heater 2.8 lakh Kcal/Hr. (To be discontinued)	LDO	3	6.63	1	180
10	Thermic Fluid Heater 2.8 lakh Kcal/Hr. (To be discontinued)	LDO	3	6.63	1	180
11	Thermic Fluid Heater 10 lakh Kcal/Hr. (Proposed-1)	PNG	4	3 0	0.4	180

12	Thermic Fluid Heater 10 lakh Kcal/Hr. (Proposed-2)			PN	٩G	4	3 0	0.4	180
			40.	.Det	ails of Fu	el to be	used		
Serial Number					Existing	5	Propos	ed	Total
1	Bri	Briquette (kg/hr.)			2076		-2076		0
2]	FO (kg/hr.))		800		-800		0
3	P	NG (m3/h	:.)	_	541		2658		3199
4	L	.DO (kg/hr	·.)		220		-220		0
5	Dies kg/h	el (DG Set :.)	,		120		120		240
41.Source	of Fuel]	Loc	al				
42.Mode of fuel to site		ortation of	£]	PNC	3: By pipe	line; Die	sel: By ro	ad	
		Total R	G area	a:	29326				
		No of tro cut:	ees to	be					
43.Green Developn		Number tobe pla		1.52.3					
		List of p native tr	~						
		Timeline completi plantatio	on of	f Within 1 years after the receipt of Environment Clearance.				vironment	
	44.Nu	imber and	d list	of t	rees speci	ies to be	planted	in the gro	ound
Serial Number		e of the lant	Con	nmo	on Name	Qu	antity		acteristics & cal importance
1	Heterophragma quadriloculare			Waras			17	A important native species in India. A large deciduous tree which is noticeably attractive when in bloom	
								species o belo mon	um indicum is a of flowering plant onging to the otypic genus m and the family
2	Oroxylum indicum			Tetu			17	Bigno commonl horror, o	niaceae, and is ly called midnight oroxylum Indian
			ì					bones, In	t flower, broken dian caper, or tree cles. It can reach a

<u> </u>		T	····		
					height of 18 metres (59 ft).
					Various segments of the
					tree are used in traditional
					medicine
		-			Schleichera is a
					monotypic genus of
	3	Schleichera oleosa	Kusum	17	plants in the soapberry
					family, Sapindaceae.
					There is only one species,
					Schleichera oleosa, a tree
					that occurs in the Indian
					Subcontinent and
					Southeast Asia
4					Terminalia elliptica is a
		Terminalia	Ain	17	species of Terminalia
		elliptica			native to southern and
		Â			southeast Asia in India
					Terminalia paniculata is a
					tree native to southwest
					India (including the
	5	Terminalia	Kinjal	17	Western Ghats and
		paniculata			Karnataka). Known in the
					timber trade as kinjal It is
					economically important for
					wood, medicinal uses and
					raising silkworms.
					Alstonia scholaris,
					commonly called
					blackboard tree or devil's
					tree in English, is an
	6	Alstonia scholaris	Saptaparni	17	evergreen tropical tree in
					the family Apocynaceae.
					Alstonia scholaris is a
		,			glabrous tree and grows up
					to 40 m (130 ft) tall. Its
					mature bark is grayish and
					its young branches are
					copiously marked with
					lenticels.
				· ·	Butea monosperma is a
					species of Butea native to
	7	Butea	Palash	17	tropical and sub- tropical
		monosperma			parts of the Indian
					Subcontinent. Common
					names include flame-of-
					the-forest, palash and
			l		bastard teak

ſ					Erythrina variegata is a
					much- branched deciduous
					tree growing from 3 - 27
					metres tall. It has a fluted
					bole, the thick and sappy
		-			bole and branches are
	•		Develore	17	armed with large,
	8	Erythrina	Panghara	1/	_
		variegata			scattered prickles, though
İ		6			cultivated forms are often
					unarmed. The plant is
					widely cultivated
					throughout the tropics, but
					especially in India, as an
					ornamental tree, a living
					fence, hedge plant,
			1		medicinal plant, shade
	н. Т				tree and for soil
					conservation.
ł					Mangifera indica,
	-				commonly known as
					mango, is a species of
	•		· · · · · · · · · · · · · · · · · · ·		flowering plant in the
				· ·	
					sumac and poison ivy
	2		. 1	1.07	family Anacardiaceae. It is
	9	Mangifera indica	Amba	17	native to the Indian
					subcontinent where it is
`					indigenous. Hundreds of
					cultivated varieties have
					been introduced to other
					warm regions of the world.
					It is a large fruit-tree,
					capable of growing to a
					height and crown width of
					about 30 metres (100 ft)
					and trunk circumference of
					more than 3.7 metres (12
					ft)
					Tabernaemontana
	10	bernaemontana	Naagkuda	17	alternifolia is a species of
		alternifolia	Bringer	~ .	plant in the family
					Apocynaceae. It is
					endemic to India
					Mallotus tetracoccus is a
					pioneer or early-
					· ·
					successional or early-
					secondary tree species
					more common in forest
	11				edges, clearings, and
		Macaranga	Chandwar	17	secondary forests than in
		peltata			mature forest interiors.

_				1	
					Ecophysiological studies
					indicate that Macaranga
					peltata shows a
					combination of high
					quantum use efficiency of
					photosynthetic system
					(Fv/Fm) and relative
					growth rates under higher
		<i>,</i>			light conditions, similar in
					pattern to other pioneer
					species such as Mallotus
					tetracoccus
					Azadirachta indica,
					commonly known as
					neem, nimtree or Indian
					lilac, is a tree in the
					mahogany family
	12	Azadirachta	Neem	17	Meliaceae. It is one of two
		indica			species in the genus
					Azadirachta, and is native
					to the Indian subcontinent.
					It is typically grown in
					tropical and semi-tropical
					regions. Neem trees also
					grow in islands located in
					the southern part of Iran.
					Its fruits and seeds are the
					source of neem oil.
				· ·	This is the commonest
					Indian species of Bridelia,
					found in dry deciduous to
					moist deciduous forests,
	13	Bridelia retusa	Asana	17	mixed forest, riverbanks,
					rocky places. Found
					throughout the country
					excluding Andaman and
					Nicobar Islands. The bark
					of the roots is used in
					traditional medicine
<u> </u>		L		1	

	· · · · ·				
				Bombax ceiba, like other	
				trees of the genus	
				Bombax, is commonly	
				known as cotton tree.	
				More specifically, it is	
			· · · · · · · · · · · · · · · · · · ·	sometimes known as	
14	Bomba xceiba	Sawar	17	Malabar silk-cotton tree;	
				red silk-cotton; red cotton	
				tree; or ambiguously as	
				silk-cotton or kapok. It	
				produces a capsule which,	
				when ripe, contains white	
				fibres like cotton. Its trunk	
				bears spikes to deter	
				attacks by animals.	
				Although its stout trunk	
				suggests that it is useful	
				for timber, its wood is too	
				soft to be very useful.	
				Pterospermum is a	
		·		flowering plant genus.	
15	terospermum	Muchkund	17	Traditionally included in	
	acerifolium			the family Sterculiaceae, it	
				is included in the	
				expanded Malvaceae in	
				the APG and most	
				subsequent systematics.	
				Cordia dichotoma (C.	
16				dichotoma) is one of the	
4 D				traditional medicinally	
				important deciduous plants	
	Cordia dichotoma	Shelu	17	available all over India.	
				dichotoma is chief	· · · · ·
				ingredient. From the	
				ancient time, leaves and	
				stem bark are used in the	
				treatment of dyspepsia,	
		· · · · ·		fever, diarrhea, leprosy,	
				gonorrhoea and burning	
				sensation.	
	 		<u> </u>	Neolamarckia cadamba,	
				with English common	
				names burflower- tree,	
				laran, and Leichhardt pine,	
				and called kadam locally,	
	eolamarckia			is an evergreen, tropical	
17	cadamba	Kadamba	17	tree native to South and	
1/	Cauamba	Ixaganiba	1 /	Southeast Asia. It has	
				scented orange flowers in	
				dense globe-shaped	
L	L	I	L	ucitor gibbe-sitapeu	

						clusters. The flowers are	
						used in perfumes. The tree	
						is grown as an ornamental	
						plant and for timber and	
						paper-making.	
						Kadam features in Indian	
						religions and mythologies.	
18	18 Firmiana colorata Ka		ushi	17	onset of flowering. After leaf-shedding, buds sprout and develop into flowers.		
						The tree flowers from March to April. The genus Sterculia was named after	
	19 Millingtonia K hortensis					the Latin god Sterculius. It is a versatile tree which can grow in various soil	
19			Kavalnimb		19	ypes and climates with a preference for moist climates. Like Parijata it blooms in night and sheds during morning. Flowers give very pleasant smell.	
45.Total	quantit	y of plant	s on gro	und			
					ecies to b	be planted in the podium RG:	
Serial Numbe r		Na me		C/C Distance		Area m2	
1		NA		NA		NA	
	•			7.Ene	ergy		
	-	Source of supply :	*	MSEDCL			
	During Constru Phase: Load)						
Pow requirer		DG set as Power back-up during		750 kVA			
Di		During Operation (Connection		e 1992			

Ų

	1	[]		·	
		load):			
		During Operation phase (Demand load):	1350		
	· · · ·	Transformer:	2000 kVA		
	DG set as Power back-up during operation phase:				
		Fuel used:	Diesel, 240 kg	/hr.	
	• • •	Details of high tension line passing through the plot if any:	NA		
			g by non-conv	ventional method:	
Solar energ	w will b			solar system will be installed on building	
Solar cherg	<u>59 win 0</u>		alculations &		
Serial					
Numbe r		Energy Conservat	ion Measures	Saving %	
1	Solar st	reetlights & Roof to system will	p solar power Ibe installed	0.25 %	
		50.Details o	f pollution co	ntrol Systems	
Source		Existing pollution c	control	Proposed to be installed	
Air emissions	The existing Boiler & TFH fuel will be replaced withfuel PNG to reduce SO2 & PM emissions. A stack height of 30 m is provided for all the boiler and thermic fluid heater stacks. Multi cyclone dust collector is provided to briquette fired boiler. Stack of D.G set is 5.4 m above				
Liquid Effluent	roof.ETP of 160 CMD is provided at site with primary, secondary and tertiary treatment.ETP capacity will be 240 CMD will provided with Primary, secondary a tertiary treatment and ultra-filtration shall be followed. The additional effluent due to proposed expansion be reused within premises.				
Noise & Vibrations	The D.G set is installed in an isolated place and acoustic enclosures have been provided. PPE's are provided to workers.				
		workers.			
Budge	tary	workers. Capital cost:	1500000		

	M cost): Environmental M	anagement plan B	udgetary Allocati	on
	a) (Construction phase	e (with Break-up)):
Serial Number	Attributes	Parameter		Cost per annum s. In Lacs)
1Air• Dust abatement by water sprinkling1Air0Creating Wind barrier for controlling the dust emission			4.5	
2	Sewage	• Treatment in existing ETP		0
3	Provision of PPEs for Construction workers, Creating Wind barrier for		2.0	
		controlling the dust emission		
4	Solid Waste Management	 Disposal, Transportation of Solid waste, 	2.5	
5	Occupational Health & Safety	 Breathing masks, Safety PPEs to construction workers 		2
	b) Operation Phase	(with Break-up):	
Serial Numbe r	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
I	Air	 Stack with 30 m height will be provided to TFH stack • Maintenance of stack (R) 	5	0.2
2	Water	 Primary, Secondary and tertiary treatment, Ultrafiltration • Maintenance cost of ETP (R) 	100	8

			<u> </u>	
		• PPE's to		
		employees,		
		• Regular		0.5
3		monitoring of	2	0.5
	Health			
		health checkups Addition of 		
		• Addition of new PPEs and		
·		Maintenance	· · · · · · · · · · · · · · · · · · ·	·
		cost (R)		
		• Acoustic		
4	Noise	enclosures to DG	0.5	0.1
		Set •		
		 Maintenance cost 		
		(R)		
		• Disposal of		
		Hazardous Waste		
5	Hazardous	to common	0	15
	waste	hazardous waste		
		disposal facility		e e e e e e e e e e e e e e e e e e e
		• (R)		
		• Development of	7	
		green belt in the		
6	Green Belt	 proposed green 	5	15
	Green Ben	• proposed green belt area. •	L .	
		Maintenance of		
	·····	green belt (R) • Installation		
		of Rain Water		
	Rain Water			
7		Harvesting	- 5	0.5
	riai vesting system	• collection system		
		with 50 KL		
		storage capacity		
		Annual cleaning		
		and Maintenance		
		(R)		
		 Quarterly 		
		Environment		
8	Environmental	• Monitoring (R) •	50	6
	Monitoring	Installation of		
		CEMS &		
		Effluent		
		monitoring		
		system		
		• Solar street lights		
		and rooftop solar		
9	Energy Saving	harvesting system	15	1.5
9	Measures	Maintenance of	гэ	L.J
		the solar		
L			· · · · · · · · · · · · · · · · · · ·	L I II II II II II II II II II

			harvesting sy (R)	stem						, ,
1 111 1	EC Co Aonite	nditions oring	 Third party monitoring of Compliance of E.C. Condition (R) 	of		0			5	
51.Stora	ge of	chemica	ls (inflamable/exp	losive	e/ha	zardous/	toxics	ubstai	nces)	
Descrip	otion	Statu s	Location	Sto ge Caj city M'	e pa rin	Maxim um Quant ity of Storag e at any point of time in MT	ti Mo	sump on / onth MT	Sourc e of Suppl y	Mean s of transpo rtation
Ethylene or	xide	Gas	Above ground Storage tank	50)	50	10	50	Local	By road
Propylene oxide		Liquid	Above ground Storage tank	50)	50	1:	50	Local	By road
Formaldeh	yde	Liquid	Above ground Storage tank	30)	30	33	30	Local	By road
Formic aci	d	Liquid	Above ground Storage tank	30)	30	2	10	Local	By road
Hydrogen peroxide		Liquid	Above ground Storage tank	30)	30	24	40	Local	By road
Caustic Ly	e	Liquid	Above ground Storage tank	30)	30	6	0	Local	By road
Sulphuric A	Acid	Liquid	Above ground Storage tank	10)	10	3	0	Local	By road
Liquor Ammonia		Liquid	Above ground Storage tank	30)	30	1	5	Local	By road
Morpholine	ð	Liquid	Above ground Storage tank	10	0	10 0	3:	50	Local/im port	By road/By sea
Mono Meth Amine	nyl	Gas	Above ground Storage tank	120	0	12 0	7:	50	Local	By road
Mono Ethy Amine	1	Liquid	Above ground Storage tank	12:	5	12 5	1:	50	Local	By road

							· · ·	<u> </u>
Ethyl Ethanolamine	Liquid	quid Above ground Storage tank		125	12 5	1087.5	Local	By road
Piperidine	Liquid	Drums		10	10	20.22	Local	By road
Methyl Diethanolamin e	Liquid		Above ground Storage tank		60 0	42.6	Local	By road
Caustic Flakes (3,0,1)	Solid	Bags		15	15	13.08	Local	By road
N Methyl Morpholine	Liquid	Above grou Storage tan		20	20	214.39	Local	By road
Ethyl Monoethanola mine HB (3,2,1)	Liquid	Above grou Storage tan		100	10 0	42	Local	By road
Diethanolamin e	Solid	Above grou Storage tan		50	50	1749	Local	By road
Methanol	Liquid	Drums		10	10	1.95	Local	By road
Di-Butyl Amine	Liquid	Above grou Storage tan		10	10	119.25	Local	By road
Phenol	Liquid	Drums		20	20	113.1	Local	By road
Tertiary Butyl Amine	Liquid	Drums		10	10	85.5	Local	By road
No Information A	Available			any Othe ormation				
		53.]	[raffi	c Manag	gement			
	main design	on to the road &	NA			,		
	Numl area d basen		NA					
Number and area of podia: Total Parking area:		of	NA					
		7332	2.58 sq. n	1.				
	Area	per car:	NA	···-				
Area per car: Number of 2- Wheelers as approved by details:		NA NA						
uetans:	comp autho							

Number o Wheelers approved competent authority:	as by NA
Public Transport	: NA
Width of a Internal roads (m):	ill 6 m
CRZ/ RRZ clearance obtain, if a	INA
Distance fr Protected Critically	om
Polluted an Eco-sensiti areas/ inte	reas / ye
boundaries	
Category a per schedu of EIA	
Notification sheet	n
Court case pendingif	
Other Rel Information	
Have you previously submitted	No
Applicatio online on MOEF W	
Date of online submission	- 1

3. The proposal has been considered by SEIAA in its 239th (Day-2) meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions-

Specific Conditions:

SEAC Conditions-

- 1. PP to spend part CER funds for the conservation and protection of crocodiles observed in the study area in consultation with the competent Authority of Forest Department.
- 2. PP proposes to discharge 80 CMD of treated effluent to the CETP and 75 CMD will

be recycled.

- 3. PP to comply with all recommendations of the HAZOP and Risk Assessment study.
- 4. PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
- 5. PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.
- 6. PP to provide obstruction free access road to the ETP area.
- 7. PP to build adequate capacity wall in the hilly area so as to minimize impact of land slide if any.
- 8. PP to use PNG as a fuel to existing as well as proposed utilities.

SEIAA Conditions

- 1. PP submitted MIDC plan dated 08.12.2021. As per the said plan total plot area of the project is 73,315 sqm and PP has provided 27,998.64 sqm as green belt (40% of total plot area).
- 2. PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peeple, Neem, Jamun and other suitable trees as per the Forest Department, Govt. of Maharashtra circular no SaVaVi-2019/C.R.3/F-11, dated 25th June, 2019. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki experts / arborist.
- 3. PP to ensure that, proposed expansion will be a ZLD unit.
- 4. PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.
- 5. PP to strictly observe the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 as amended time to time.
- 6. PP to identify all sources of fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air (Prevention and Control of Pollution) Act, 1981 amended time to time.
- 7. PP to ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 amended time to time to ensure no release of any chemical to the atmosphere and leakage to the soil.
 - 8. PP to ensure transport, storage, handling and use of the flammable/toxic chemicals as per conditions stipulated in license/approval of the Petroleum & Explosive Safety Organization (PESO).
 - 9. PP to obtain approval and License from the Directorate of Industrial Health & Safety (DIHS) for proposed project and implement all condition stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963 and ensure compliance of recommendation of the Audit.
 - 10. PP to provide solar energy for illumination of Administrative Building, Street Lights and parking Area.
 - 11. PP to ensure use of briquette /bio coal/ pellets/ or any such suitable product derived from scientific processing of appropriate stream of dry waste/agricultural waste , not less than 50 % of the total fuel requirement to the boiler.
 - 12. PP to provide roof top Rain Water Harvesting facility.

General Conditions:

I. The project proponent 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 Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website at <u>http://parivesh.nic.in</u>

- II. The project Proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental Clearance letter including monitoring data of air, water, soil, noise etc. on their website and shall update the same periodically. The half yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Controls Board, SEIAA and the Regional Office off MoEF&CC at Nagpur, on 1st June & 1sr December of each calendar year.
- III. Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and the SEIAA.
- IV. A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards.
- V. In the event of failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.
- VI. PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.
- VII. PP to provide separate drains for storm water and effluent, and ensure that, the storm water drains are dry all the time and in no case the effluent shall mix with the storm water drain.
- VIII. Periodic Monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
 - IX. The overall noise levels in and around the factory premises shall be kept within the prescribed standard under the Environment (Protection) Act, 1986 and Rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc.
 - X. Adequate safety measures shall be ensured to limit the risk zone within the factory premises. Leak detection system shall be installed for early detection and mitigation purpose.
 - XI. PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.
- XII. The Environmental Statement for each financial year ending on 31st March in Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rule, 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance of the conditions stipulated in the Environmental Clearance letter.

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.

In case of submission of false document and non-compliance of stipulated conditions, 5. Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

The Environment department reserves the right to add any stringent condition or to revoke 6. the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

Validity of Environment Clearance: The environmental clearance accorded shall be valid as 7. per EIA Notification, 2006, amended time to time.

In case of any deviation or alteration in the project proposed from those submitted to this 8. 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.

The above stipulations would be enforced among others under the Water (Prevention and 9. 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.

Any appeal against this Environment clearance shall lie with the National Green Tribunal 10. (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.

> Manisha Patan (Member Secr

Copy to:

- 1. Chairman, SEIAA (Maharashtra), Mumbai.
- 2. Secretary, MoEF & CC
 - 3. IA- Division MOEF & CC
 - 4. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
 - 5. Regional Office MoEF & CC, Nagpur
 - 6. District Collector, Thane.
 - 7. Regional Officer, Maharashtra Pollution Control Board, Navi Mumbai.

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