

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department, Room No. 217, 2nd floor, Mantralaya, Annexe, Mumbai- 400 032. Date:March 17, 2018

To

Aarti Industries Ltd., Unit III, Plot No. K-17,18,19, MIDC Tarapur at Plot No. K17,18,19, MIDC Tarapur Tal Palghar, Dist Palghar Maharahstra

Subject:

Environment Clearance for Proposed Increase in Production Capacity of Synthetic Organic Chemicals Manufacturing Facility by Aarti Industries Ltd. at Plot No. K17,18,19, MIDC Tarapur Tal Palghar, Dist Palghar Maharahstra

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 121st meetings.

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

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

1.Name of Project	Proposed Increase in Production Capacity of Synthetic Organic Chemicals Manufacturing Facility by Aarti Industries Ltd. at Plot No. K17,18,19, MIDC Tarapur Tal Palghar, Dist Palghar Maharahstra						
2.Type of institution	Private						
3.Name of Project Proponent	Aarti Industries Ltd., Unit III, Plot No. K-17,18,19, MIDC Tarapur						
4.Name of Consultant	Aditya Environmental Services Pvt Ltd						
5.Type of project	Project Not applicable						
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project						
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable						
8.Location of the project	Plot No. K17,18,19, MIDC Tarapur Tal Palghar, Dist Palghar Maharahstra						
9.Taluka	Palghar						
10.Village	Salwad village						
11.Area of the project	MIDC Tarapur						
40 400 400 40	MIDC Tarapur						
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: MIDC approved plot plan						
V	Approved Built-up Area: 8397.6						
13.Note on the initiated work (If applicable)	Not applicable						
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approval						
15.Total Plot Area (sq. m.)	8233 sq.m						
16.Deductions	Not applicable						
17.Net Plot area	Not applicable						
10 D	FSI area (sq. m.): Not applicable						
18.Proposed Built-up Area (FSI & Non-FSI)	Non FSI area (sq. m.): Not applicable						
,	Total BUA area (sq. m.): Not applicable						
19.Total ground coverage (m2)	Not applicable						
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable						

SEIAA Meeting No: 121 Meeting Date: March 13, 2018 (SEIAA-STATEMENT-0000000182) SEIAA-MINUTES-0000000324 SEIAA-EC-0000000222 Shri Satish.M.Gavai (Member Secretary SEIAA)

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			22.P	roduct	ion D	etails			
Serial Number	Produ	ıct	Existing	(MT/M)	Propo	sed (MT/M)	Tot	al (MT/M)	
1	Dimethyl	l Urea	2	7		0		0	
2	Cyano Ace	tic Acid	2	5		0		25	
3	Nitrosou	ıracil	(5		44		50	
4	Theophy IP/BP/U	ylline USP	5	0		0		50	
5	Aminoph IP/BP/U	ıylline USP	1.	.5		8.5		10	
6	Etophylline I	P/BP/USP	3	0		20		50	
7	Caffeine IP, and food	grade	8	0	M	220		300	
8	Theobro IP/BP/U		AX.	HUD		7.5		10	
9	Choline Theo BP		MIL	7944	tefor	0	7	1	
10	Acefylline Pi	>	J -//			0	/>	1	
11	Diprophyllin		7 90 7		6	0 0	2	2	
12	Sodium Theo				6	250	(A)	250	
13	Urac) 83	28	50		50	
14	Theophyllir		7 /	0.5	20.	60	E	60	
15	Liquor Am (Byprod	luct)	1	5 14	P. (1)	0	8	0	
16	Recovered A (Byprod		其 3	0		330	政	360	
17	Recovered Chloride (By		2			364		385	
18	Recovered Sulphate (By		2			243	Ses	264	
19	Recovered (basis 1) (Byprod	00%)		िण्यस्य	मुद्रा	60	4	60	
		2	3.Tota	l Wate	r Reg	uiremen	t		
	9	Source of v		From MIDC					
	I	Fresh wate	er (CMD):	400 cmd (as per Existing Consent to Operate)					
		Recycled w Flushing (100	0 10 1	- 6		
	Recycled w Gardening Swimming make up (0		vater - (CMD):			em	. UT		
			pool Cum):	-					
Dry season: Total Wate Requireme :		ent (CMD)	709 cmd	a :	sht	ra			
	Fire fightin Undergrou tank(CMD) Fire fightin Overhead v tank(CMD)		nd water	-					
			water						
	I	Excess trea	ated water	Not applica	ble				

	Source of water	
	Fresh water (CMD):	
	Recycled water - Flushing (CMD):	
	Recycled water - Gardening (CMD):	
	Swimming pool make up (Cum):	
Wet season:	Total Water Requirement (CMD)	
	Fire fighting - Underground water tank(CMD):	
	Fire fighting - Overhead water tank(CMD):	MODEO
	Excess treated water	-वेववाधरा
Details of Swimming pool (If any)	Not applicable	



			24.D	etails o	of Total v	water	consumed				
Particula rs	Consu	mption (CN			oss (CMD)		Effluent (CMD)				
Water Require ment	Existing	Proposed	Total	Existing	xisting Proposed Total Existing F				Total		
Domestic	17	0	17	7	0	7	10 0				
Industrial Process	26	80	106	0	0	0	26 + 19 (reaction water)	80+ 39 (reaction water)	164		
Cooling tower & thermopa ck	303	277	580	136	176	312	167	101	268		
Gardening	6	0	6	6	0	6	0	0	0		
				MI	TY THE	7 17	7.4.4.4				
		Level of water ta		ound	र जर्जा	3	W 75				
		Size and tank(s) a Quantity	and	RWH D€	etails given i	n EIA re	eport.				
		Location tank(s):	Location of the RWH Details given in FIA report								
25.Rain V Harvestii	Water ng	Quantity pits:	of rec	harge De	Details given in EIA report.						
(RWH)	9	Size of r	echarg	e pits De	Details given in EIA report.						
		Budgeta (Capital	ry allo cost) :	cation 5	5 Lakh						
		Budgeta (O & M	ry allo cost) :	cation 1	1 Lakh per Annum						
		Details of if any:	of UGT	tanks No	Not Applicable						
		5		YY		-11	37× (/)				
	_	Natural drainage	water e patte	rn: No	Not Applicable						
26.Storm drainage		Quantity water:	of sto	rm No	Not Applicable						
		Size of S	SWD:	No	Not Applicable						
		Sewage in KLD:	genera	tion 10							
		STP tech	nology	Se Ef	wage water fluent treatr	will be nent pla	treated in combined along with trade effluent in ant.				
27.Sewa Waste w	ige and	Capacity (CMD):	of STI	No	Not Applicable						
Waste w	väter	Location the STP:		a of No	ot Applicable						
		Budgeta (Capital	ry allo cost):	cation	ot Applicable)					
		Budgeta (O & M o	ry allo	cation	ot Applicable)					

	28.Solid waste Management					
Waste generation in the Pre Construction	Waste generation:	Minor quantity of debris will be generate.				
the Pre Construction and Construction phase:	Disposal of the construction waste debris:	Construction debris will be disposed off as per norms.				
	Dry waste:	Fly ash: 11 TPD				
	Wet waste:	Not Applicable				
Waste generation in the operation	Hazardous waste:	Spent carbon , Spent catalyst, Spent solvent, Discarded containers/barrels/drums/liners, ETP sludge, Contaminated filters				
in the operation Phase:	Biomedical waste (If applicable):	Not Applicable				
	STP Sludge (Dry sludge):	Not Applicable				
	Others if any:	Not Applicable				
	Dry waste:	Ash will be sent to brick manufacturer.				
	Wet waste:	Not Applicable				
Mode of Disposal	Hazardous waste:	Hazardous waste will be disposed off as per Hazardous waste rule, 2016.				
Mode of Disposal of waste:	Biomedical waste (If applicable):	Not Applicable				
	STP Sludge (Dry sludge):	Not Applicable				
	Others if any:	Not Applicable				
	Location(s):	Details given in EIA report.				
Area requirement:	Area for the storage of waste & other material:	Details given in EIA report.				
	Area for machinery:	Details given in EIA report.				
Budgetary allocation (Capital cost and	Capital cost:	5 Lakh				
O&M cost):	O & M cost:	100 Lakh per Annum				
	7 / / / /	790' // V				

29.Effluent Charecterestics							
Serial Number	Parameters	Unit Inlet Effluent Charecterestics		Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)		
1	рН		4-10	7.5-8.0	7.5-8.0		
2	Chemical Oxygen Demand	mg/L	5000	<250	250		
3	Biological Oxygen Demand	mg/L	2200	<100	100		
4	Total Dissolved solid	mg/L	1600	<1500	2100		
5	Total Suspended Solid	mg/L	300-500	<100	100		
Amount of e (CMD):	effluent generation	Total Effluent generated: 442 cmd, Effluent sent to ETP for treatment: 46 cmd, Loss from MEE unit- 7 cmd					
Capacity of	the ETP:	46 cmd of Effluent to Existing ETP, 145 cmd from Process to MEE plant (proposed), 186 cmd from Utilities to RO unit (proposed) [Refer EIA report]					
Amount of trecycled:	reated effluent	389 cmd					
Amount of v	vater send to the CETP:	48.6 cmd (As per existing Consent to Operate)					
Membership	o of CETP (if require):	Yes					
Note on ETP technology to be used		1. RO (for CT/Boiler Blowdown) > RO rejects to MEE > RO permeate for recycle, 2. Stream I (Chloride rich) > MEE unit stage I > Condensate recycle to process/CT, 3. Stream II (Sulfate rich) > MEE stage IV > Condensate recycle to process/CT, 4. Stream III (low TDS) > Oil & Grease trap > Neutralization tanks > Primary clarifier > Aeration tank > secondary clarifier > Pre-filtered effluent tank > Sand filter > carbon filter > Filtered effluent tank > CETP					
Disposal of	the ETP sludge	ETP sludge	will be sent to CHWTSD	F facility.			

		00111			COLLEG		
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent carbon	28.3	TPA	240	140	380	CHWTSDF
2	Spent catalyst	28.2	TPA	1.8	2.2	4	CHWTSDF
3	Spent solvent	28.6	TPA	30		30	Sell to authorized party
4	Discarded containers/barrels /drums/liners	33.1	Nos. / A	600	600	1200	Sell to authorized party after decontamination
5	ETP sludge	35.3	TPA	78	12	90	CHWTSDF
6	Contaminated filter	33.2	TPA	0.9	0.9	1.8	Incineration at CHWTSDF
		31.S	tacks em	ission D	etails		
Serial Number	Section & units		sed with ntity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	10 TPH Boiler (existing)	Coal: 30 Ti (addi	PD + 5 TPD tional)	1	35	0.6	120
2	Boiler (existing)		e oil: 1.2 /day		combined stack with 10 TPH boiler	combined stack with 10 TPH boiler	
3	DMU scrubber (existing)	, (2()=	18 ft.	The second	ambient temp.
4	Nitroso urasil reactor (existing)	ゴ		3	18 ft	1	ambient temp.
5	CAA reactor (existing)	3		4	18 ft		ambient temp.
6	600 KVA DG set (existing)	HSD: 15	0 Lit/day	5	5	0.3	90
	Σ/	32.De	tails of I	uel to b	e used	1	
Serial Number	Type of Fuel		Existing	1म्रा	Proposed	7	Total
1	Coal	4())	30 TPD		5 TPD		35 TPD
2	Furnace oil	1.2 KL/day		M. H.	Thun.		O fired boiler will be continued for proposed project
3 HSD 150 Lit/day 150 Lit/day							
Source of F	'uel	From	nearby vend	dor	101		
Mode of Tra	ansportation of fuel to sit	e By ro	oad				
	0.0						
		_	33.Fı	nergy			

30.Hazardous Waste Details

Naharashtra

		Source of supply:	power	From MSED	CL			
		During Co Phase: (Do Load)	postruction emand Power require existing facilit		rement during construction phase will be fulfilled from lity.			
	DG set a back-up construc			iring Existing: 600 KVA DG set (in case of emergency)				
_		During Opphase (Coload):	eration nnected	Additional po	ower require	ment: 550 F	ΚVA	
Pov require		During Opphase (De load):		Additional po	ower require	ment: 550 I	KVA	
		Transform	er:	Yes	.M.			
		DG set as back-up d operation	uring	Existing: 600) KVA DG set	(in case of	emergency)	
		Fuel used:	(1))>	HSD: 150 Li	t/day (in case	of emerge:	ncy)	
		Details of tension lin through thany:	ne passing	Details given in EIA report				
			erav savij	ng by non	-convent	ional m	ethod:	
Details give	n in EIA rep		D A	, A C) A	3	F	
3 3	-1		6.Detail	calculatio	ns & % o	f savino	1: 7	
Serial Number	E	\sim	ervation Mo			<i>d</i> -	Saving %	
1		421	70	770		15	E	
		-37	.Details	of polluti	on contro	ol Syster	ms	
Source	Ex	isting pollu	ition contro	l system		Prop	posed to be installed	
Air		Dust coll	ector /Bag fil					
Water		Effluent	treatment pla	upgradation of existing ETP, RO unit, MEE unit				
Noise		Enc	losure/ PPE	11.9	3	Din	Enclosure/ PPE	
Hazardous & Non- Hazardous waste	Γ	Disposed to C	CHWTSDF / F	Recycler	Day.	Dispose	d to CHWTSDF / Recycler	
Budgetary	allocation	Capital co	st:	5 Lakh				
(Capitaľ o O&M	cost):	O & M cos	t: /	1 Lakh per A	nnum	ni	OT	
38	.Envir	onmen	tal Mar	ageme	nt plan	Buda	etary Allocation	
				ction phas				
Serial Number	Attri	butes	Parar	neter	To	tal Cost p	er annum (Rs. In Lacs)	
1		- JV					d	
		b) Operat	ion Phase	(with B	reak-up):	
Serial Number		Component Descr		iption	Capital co Lac	S	Operational and Maintenance cost (Rs. in Lacs/yr)	
1	Air po			on control	35		2.5	
2		pollution Water Pollu			500	J	50	
3	Noise p	pollution Noise Pollu			3		0.5	
4	Monit	coring	Monitoring/	nment management			5	
5	Health 8	& safety		al Health & fety	5		2	
		Green belt Green Belt 1					1	





7	Solid waste	Hazardous waste & Solid waste management	5	100
8	Green initiative	Rain water harvesting	5	1
9	Green initiative	Solar power / LED	5	1

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	
30 % HCl	Existing	Near gate (west side)	20 KL	18 KL	5800 TPA	GACL/ ideal company	Tanker	
DMS	Existing	Near gate (west side)	20 KL	18 KL	2100 TPA	sister company	Tanker	
Acetic anhydride	Existing	Near gate (west side)	50 KL	45 KL	5000 TPA	Jubilant organics	Tanker	
Caustic soda lye	Existing	Near gate (west side)	20 KL	18 KL	4500 TPA	GACL	Tanker	
Formic acid	Existing	Near gate (west side)	20 KL	18 KL	2600 TPA	GNFC	Tanker	
Acetic acid (95%)	Existing	Near gate (west side)	50 KL	45 KL	details given in EIA report	details given in EIA report	Tanker	
Acetic acid (40%)	Existing	Near gate (west side)	20 KL	18 KL	details given in EIA report	details given in EIA report	Tanker	
Recovered Solvent	Existing	Near gate (west side)	10 KL	8 KL	details given in EIA report	Inplant	Tanker	
	40.Any Other Information							
No Information Availa	No Information Available							

No Information Available



CRZ/ RRZ clearance obtain, if any:	Not Applicable
Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
Category as per schedule of EIA Notification sheet	5(f)- B
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	19-08-2016

^{3.} The proposal has been considered by SEIAA in its 121st 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:

	V Z I TIK / J I TI Z V V Z /
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.
III	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
IV	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
V	Proper Housekeeping programmers shall be implemented.
VI	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
VII	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VIII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
IX	Arrangement shall be made that effluent and storm water does not get mixed.
X	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
XI	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
XII	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
XIII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
XIV	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
XV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XVI	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVII	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
XVIII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
XIX	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

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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.

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Shri Satish.M.Gavai (Member Secretary SEIAA)

Copy to:

- 1. SHRI ANAND. B. KULKARNI, CHAIRMAN-SEIAA
- 2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
- 3. SHRI JOHNY JOSEPH, CHAIRMAN-SEAC-II
- 4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
- **5.** SECRETARY MOEF & CC
- **6.** IA- DIVISION MOEF & CC
- 7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
- 8. REGIONAL OFFICE MOEF & CC NAGPUR
- 9. REGIONAL OFFICE MIDC TARAPUR
- 10. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
- 11. COLLECTOR OFFICE PALGHAR