



## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,  
Room No. 217, 2nd floor,  
Mantralaya, Annexe,  
Mumbai- 400 032.  
Date: March 25, 2020

To,  
**Mr. Rajesh Mangwani**  
at A -78

**Subject:** Environment Clearance for Proposed Industrial Project

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 181st ,Day-1st 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 194th 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 :-**

1.Name of Project	M/s. Bhushilpa Chemicals Pvt. Ltd
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajesh Mangwani
4.Name of Consultant	M/s. Eco Chem Sales & Services & Green Solution
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	not applicable, industry is established before 2006
8.Location of the project	A -78
9.Taluka	Daund
10.Village	Kurkumbh
Correspondence Name:	Ms. Natasha Mangwani
Room Number:	1194/14 -A
Floor:	1st Floor
Building Name:	Tulsi Bhavan
Road/Street Name:	Modern College Rd
Locality:	Shivaji Nagar
City:	Pune
11.Whether in Corporation / Municipal / other area	MIDC Kurkumbh
12.IOD/IOA/Concession/Plan Approval Number	MIDC Kurkumbh IOD/IOA/Concession/Plan Approval Number: DE/KUR/PLAN/C-35830/ of 2019 Approved Built-up Area: 918
13.Note on the initiated work (If applicable)	Expansion in Existing Unit. Industry is established in 2002.

**SEIAA Meeting No: 194 Meeting Date: March 13, 2020 ( SEIAA-STATEMENT-000003440 )**  
**SEIAA-MINUTES-000003140**  
**SEIAA-EC-000002243**

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**Shri. Anil Diggikar (Member Secretary SEIAA)**

14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approval
15.Total Plot Area (sq. m.)	4050 sq.mt
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	<b>FSI area (sq. m.):</b> FSI Area- Not Applicable Non FSI Area - Not Applicable Total BUA area (sq. m.): 918
	<b>Non FSI area (sq. m.):</b> FSI Area- Not Applicable Non FSI Area - Not Applicable Total BUA area (sq. m.): 918
	<b>Total BUA area (sq. m.):</b> 918
18 (b).Approved Built up area as per DCR	<b>Approved FSI area (sq. m.):</b> Not applicable
	<b>Approved Non FSI area (sq. m.):</b> Not applicable
	<b>Date of Approval:</b> 16-07-2019
19.Total ground coverage (m2)	1142
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28%
21.Estimated cost of the project	31000000



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## 22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Ethyl Succinyl Chloride	2	5	7
2	Methyl Succinyl Chloride	0	5	5
3	3 Phenyl Propionyl Chloride	0	12	12
4	Di Ethyl Succinate	0	0.5	0.5
5	Mono Ethyl Succinate	0	4	4
6	Di Methyl Succinate	0	0.5	0.5
7	Mono Methyl Succinate	0	4	4
8	3 Phenyl Propionic Acid	0	10	10
9	Hydrochloric Acid 30%	4	10	14
10	Succinic Acid	0	2	2
11	Nitro Phenyl Hydrazine	0	14	14
12	Sodium Sulphite	0	14	14
13	The total production quantity at our plant will not exceed 68 MT/M	--	--	--

## 23. Total Water Requirement

<b>Dry season:</b>	<b>Source of water</b>	Kurkumbh MIDC
	<b>Fresh water (CMD):</b>	29.71
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	1.1 for cooling tower make up
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	30.81
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
	<b>Excess treated water</b>	0.0

<b>Wet season:</b>	<b>Source of water</b>	Kurkumbh MIDC
	<b>Fresh water (CMD):</b>	25.61
	<b>Recycled water - Flushing (CMD):</b>	Not applicable
	<b>Recycled water - Gardening (CMD):</b>	1.1 for cooling tower make up
	<b>Swimming pool make up (Cum):</b>	Not applicable
	<b>Total Water Requirement (CMD) :</b>	26.71
	<b>Fire fighting - Underground water tank(CMD):</b>	Not applicable
	<b>Fire fighting - Overhead water tank(CMD):</b>	Not applicable
<b>Excess treated water</b>	0.0	
<b>Details of Swimming pool (If any)</b>	Not applicable	



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## 24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	1.04	1.65	2.69	0.19	0.3	0.49	0.85	1.35	2.2
Industrial Process	0.41	2.61	3.02	0.02	0.43	0.45	0.39	2.18	2.57
Cooling tower & thermopack	3.5	17.5	21	3.48	17.41	19.9	0.02	0.09	1.1
Gardening	0.9	3.2	4.1	0.9	3.2	4.1	0	0	0

<b>25.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	25-50 m
	<b>Size and no of RWH tank(s) and Quantity:</b>	1 no of RWH tank with size L 5.24m x B 5.24m x H 2.06 m
	<b>Location of the RWH tank(s):</b>	Combine with cooling tower tank
	<b>Quantity of recharge pits:</b>	NA
	<b>Size of recharge pits :</b>	NA
	<b>Budgetary allocation (Capital cost) :</b>	2,00,000
	<b>Budgetary allocation (O &amp; M cost) :</b>	50,000
	<b>Details of UGT tanks if any :</b>	Not Applicable

<b>26.Storm water drainage</b>	<b>Natural water drainage pattern:</b>	unit is in MIDC
	<b>Quantity of storm water:</b>	4.59 cum/min
	<b>Size of SWD:</b>	250 mm Dia pipe

<b>27.Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	2.2
	<b>STP technology:</b>	We are providing septic tank with soak pit
	<b>Capacity of STP (CMD):</b>	NA
	<b>Location &amp; area of the STP:</b>	--
	<b>Budgetary allocation (Capital cost):</b>	--
	<b>Budgetary allocation (O &amp; M cost):</b>	--

## 28.Solid waste Management

<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	Minimal waste generation
	<b>Disposal of the construction waste debris:</b>	Not Applicable
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	15 Kg/month
	<b>Wet waste:</b>	30 kg /month
	<b>Hazardous waste:</b>	Details mentioned below
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Boiler Ash - 4.5 Kg/hr
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	Send to authorized re processor
	<b>Wet waste:</b>	Send to authorized re processor
	<b>Hazardous waste:</b>	Send to CHWTSDf, Ranjangaon
	<b>Biomedical waste (If applicable):</b>	Not Applicable
	<b>STP Sludge (Dry sludge):</b>	Not Applicable
	<b>Others if any:</b>	Sale to brick manufacturer
<b>Area requirement:</b>	<b>Location(s):</b>	Scrap yard
	<b>Area for the storage of waste &amp; other material:</b>	149 sqm
	<b>Area for machinery:</b>	Not Applicable
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	1,50,000
	<b>O &amp; M cost:</b>	6,80,000

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## 29. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	--	6.5	7.4	5.5-9.0
2	SS	Mg/lit	650	Nil	100
3	BOD	Mg/lit	120	28	100
4	COD	Mg/lit	600	90	250
5	TDS	Mg/lit	3500	70	2100
6	Oil & Grease	Mg/lit	8	Nil	10.0
7	Sulphates	Mg/lit	--	Nil	1000
8	Chloride	Mg/lit	100	Nil	600
Amount of effluent generation (CMD):		Total 3.67 CMD			
Capacity of the ETP:		3 CMD			
Amount of treated effluent recycled :		1.1 (out of 3.67 CMD effluent, 2.57 CMD effluent from industrial processing will be forced evaporated & remaining 1.1 CMD effluent will be treated through ETP.			
Amount of water sent to the CETP:		0.0			
Membership of CETP (if require):		Yes			
Note on ETP technology to be used		Primary & tertiary treatment			
Disposal of the ETP sludge		send to CHWTSDF, Ranjangaon			

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<b>30.Hazardous Waste Details</b>							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Discarded containersbarrels, used for HW chemicals	33.1	Nos./ Month	5	70	75	Sale to Authorized recycler
2	ETP Sludge	35.3	Kg/ Month	4.5	24.9	29.4	CHWSTDF
3	Distillation residue	36.1	Kg/ Month	9	4116	4125	CHWSTDF
4	Spent solvent wash	20.2	Kg/Month	25	275	300	Recycle & Reuse
<b>31.Stacks emission Details</b>							
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases	
1	Existing Boiler 300 kg	LDO -15 Litre/hr.	1	15.0	300 mm	110	
2	Proposed Boiler 600 kg	Briquettes 130 kg/hr.	3	30	350 mm	150	
3	Existing DG set 35 KVA	HSD 3.75 L/hr.	2	2.5	50mm	65	
4	Proposed DG set 35 KVA	HSD 3.75 L/hr.	4	2.5	50 mm	65	
<b>32.Details of Fuel to be used</b>							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	LDO	92 LPD	196 LPD	288 LPD			
2	Briquettes	0	130 Kg/hr	130 Kg/hr			
3	HSD	3.75 litre/hr	3.75 litre/hr	7.5 litre/hr			
33.Source of Fuel		Open market					
34.Mode of Transportation of fuel to site		By Road					
<b>35.Energy</b>							

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<b>Power requirement:</b>	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction Phase: (Demand Load)</b>	Minimal
	<b>DG set as Power back-up during construction phase</b>	NA
	<b>During Operation phase (Connected load):</b>	61 KVA
	<b>During Operation phase (Demand load):</b>	51 KVA
	<b>Transformer:</b>	NA
	<b>DG set as Power back-up during operation phase:</b>	2 No of DG Sets of 35 KVA capacity each
	<b>Fuel used:</b>	HSD
	<b>Details of high tension line passing through the plot if any:</b>	NA

**Energy saving by non-conventional method:**

LED Lightning

**36.Detail calculations & % of saving:**

Serial Number	Energy Conservation Measures	Saving %
1	LED Lightning	16 No. of lights with 12 KW capacity each

**37.Details of pollution control Systems**

Source	Existing pollution control system	Proposed to be installed
Effluent (ETP)	Effluent Treatment Plant + RO	--
Boiler	Stack	Stack
DG Set	Acoustic enclosure	Acoustic enclosure
Air Pollution Control System	Scrubber & absorber	Scrubber (attached to GLR for SO <sub>2</sub> ) & absorber (ttached to GLR for Cl <sub>2</sub> )

<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	1,68,000
	<b>O &amp; M cost:</b>	--

**38.Environmental Management plan Budgetary Allocation**

**a) Construction phase (with Break-up):**

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Environmental monitoring	Air, water & noise monitoring	0.3
2	Occupational health & safety	Personal protective equipments	0.15

3	Air pollution control	Water sprinkling for dust control	0.30
4	Environment Management cell	Environment Management cell	0.5

**b) Operation Phase (with Break-up):**

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	ETP	ETP	8	4.8
2	Environmental Health & safety	Environmental Health & safety	1.5	3.6
3	Solid waste	Solid waste	1.5	6.8
4	Greening	greening	1.5	1
5	Environmental Monitoring	Environmental Monitoring	--	1.2
6	Air pollution	Scrubber	2	0.2
7	Rain water Harvesting	RWH system	2	0.5
8	Environment Management Cell	Environment Management Cell	--	1.2

**39.Storage of chemicals (inflammable/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
Ethanol	INF	Ethanol store	3	3	4.6	Open domestic market	By Road
Methanol	INF	Methanol store	1	1	2.6	Open domestic market	By road
Thionyl Chloride	HAZ	Thionyl store	8	8	12.8	Open domestic market	By road
LDO	INF	LDO tank	12	8	7.5	Open domestic market	By road
Hydrazine Hydrate	HAZ	Common store	4	4	4	Open domestic market	By road
Ortho Nitro Chloro Benzene	HAZ	Common store	3	3	3	Open domestic market	By road
Succinic Anhydride	Non HAZ	Common store	13	3	13	Open domestic market	By road
Cinnamic Acid	Non HAZ	Common store	8	7	21.2	Open domestic market	By road/sea
Sodium Hydroxide	Non HAZ	Common store	3	3	13.1	Open domestic market	By road

Hydrochloric Acid 30%	HAZ	Common store	4	4	8.4	Open domestic market	By road
<b>40.Any Other Information</b>							
No Information Available							



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	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	NA
	<b>Category as per schedule of EIA Notification sheet</b>	5 (f)
	<b>Court cases pending if any</b>	NA
	<b>Other Relevant Informations</b>	No
	<b>Have you previously submitted Application online on MOEF Website.</b>	No
	<b>Date of online submission</b>	-

**3. The proposal has been considered by SEIAA in its 194th 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:**

<b>I</b>	PP to prepare safety training modules in Marathi language and implement the same for staff so as to increase its effectiveness.
<b>II</b>	PP to submit compliance of point No. 3 (x) and (xi) of the standard ToR point.
<b>III</b>	PP to ensure to use briquettes as a fuel to the boiler so as to reduce air pollution potential.
<b>IV</b>	PP to prepare & implement CER plan in consultation with the District Authority as per OM issued by MoEF&CC dated 01.05.2018.
<b>V</b>	PP to use new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly. PP to provide lightening arrestor.
<b>VI</b>	PP to include carbon and water foot print monitoring in their Environmental Management Plan.
<b>VII</b>	PP to ensure that CER plan gets approved from District Collector.
<b>VIII</b>	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF& CC dated 9th August, 2018.

**General Conditions:**

<b>I</b>	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
<b>II</b>	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
<b>III</b>	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
<b>IV</b>	Proper Housekeeping programmers shall be implemented.
<b>V</b>	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.
<b>VI</b>	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
<b>VII</b>	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
<b>VIII</b>	Arrangement shall be made that effluent and storm water does not get mixed.
<b>IX</b>	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.
<b>X</b>	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.

XI	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
XII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XV	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
XVII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XIX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
XX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>
XXI	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
XXII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
XXIII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO <sub>2</sub> , NO <sub>x</sub> (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.
XXIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
XXV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

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

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

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 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.

  
Shri. Anil Diggikar (Member Secretary SEIAA)

**Copy to:**

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, 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. MUNICIPAL COMMISSIONER PUNE
10. MUNICIPAL COMMISSIONER SATARA
11. REGIONAL OFFICE MPCB PUNE
12. REGIONAL OFFICE MIDC PUNE
13. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
14. COLLECTOR OFFICE PUNE
15. COLLECTOR OFFICE SATARA
16. COLLECTOR OFFICE SOLAPUR