STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

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

To,
Glenmark Pharmaceuticals limited
at Plot No. B- 25, MIDC Shendra, Aurangabad, 431210, Maharashtra

Subject: Environment Clearance for Establishment of Synthetic Organic Chemical API Manufacturing facility by Glenmark Pharmaceuticals limited at Plot No. B- 25, MIDC Shendra, Aurangabad, 431210, Maharashtra

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 SEIAA Meeting No. 110th 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	Establishment of Synthetic Organic Chemical API Manufacturing facility by Glenmark Pharmaceuticals limited at Plot No. B- 25, MIDC Shendra, Aurangabad, 431210, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	Glenmark Pharmaceuticals limited
4.Name of Consultant	Aditya Environmental Services pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Diversification in existing facility. Existing facility pertains to formulation which does not falls under EIA notification, 2006.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No. B- 25, MIDC Shendra, Aurangabad, 431210, Maharashtra
9.Taluka	Aurangabad
10.Village	Kumbephal
11.Whether in Corporation / Municipal / other area	Maharashtra Industrial Development Corporation
12.IOD/IOA/Concession/Plan Approval Number	As per MIDC norms
	IOD/IOA/Concession/Plan Approval Number: MIDC Plot plan approval
	Approved Built-up Area: 26465
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC plan approval No. E11825
15.Total Plot Area (sq. m.)	118,955 sq.m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable

18 (a).Proposed Built-up Area (FSI & Non-FSI)	**FSI area (sq. m.):** Not applicable
	Non FSI area (sq. m.): Not applicable
	Total BUA area (sq. m.): 26,465
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	400000000

22.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Crofelemer	0.417	0	0.417
2	Tablets	50 million per annum	0	50 million per annum
3	Capsules	50 million per annum	0	50 million per annum
4	Inhalers	5 million per annum	0	5 million per annum
5	Anti Acne (Adapalene), Anti-Alzheimer (Riluzole), Anti depressant (Bupropion HCl), Anti emetic (Palonosetron), Anti Erectile Dysfunction (Tadalafil), Anti Fungal (Fluconazole, Voriconazole), Anti Histaminic (Desloratadine, Levocetrizene), Anti Hyperlipidemia (Rosuvastatin Calcium), Anti hypertensive (Cilazapril, Olmesartan Medoxomil, Perindopril Erbuminem, Telmisartan), Antibiotic (Linzolid), Anticonvulsant (Zonisamide, Oxcarbazepine), Antidiabetic (Sitagliptin, Tenegliptin), Antirheumatics (Etoricoxib),Antiulcer(Esomeprazole Magnesium Dihydrate),Hypnotic, Sedative(Zolpidem Tartrate),Platelet Aggregation Inhibitor(Cilostazol),Psoriasis(Dimethvl Fumarate),To treat Osteoporosis(Strontium Ranelate)	0	18.4	18.4

23.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	340 cmd
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	618 cmd (Fresh water- 340 cmd & Recycle water- 278 cmd)
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

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

24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	25	20	45	5	0	5	20	20	40
Industrial Process	106	112	218	6	28	34	100	84	184
Cooling tower & thermopack	119	191	310	106	150	256	13	41	54
Gardening	5	40	45	5	40	45	0	0	0

25.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	Rain water quantity: 40 cmd (During wet season)
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	15 Lakhs
	Budgetary allocation (O & M cost) :	5 Lakhs per annum
	Details of UGT tanks if any :	Not applicable

26.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	--

27.Sewage and Waste water	**Sewage generation in KLD:**	40 cmd
	STP technology:	Sewage water partially treat in STP & then sent to ETP for final treatment.
	Capacity of STP (CMD):	STP capacity: 40 cmd
	Location & area of the STP:	Near solvent recovery plant
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	--

28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	During construction phase waste debris will generate in minor quantity.
	Disposal of the construction waste debris:	Construction waste debris will be reused for levelling.
Waste generation in the operation Phase:	**Dry waste:**	Carton boxes and paper scrap: 3.74 TPA, Fiber drum: 11,200 Nos./A, Aluminum foil: 5,00,000 Nos./A, Poly bags scrap: 4.7 TPA, Aluminum scrap: 4.5 TPA, Paper scrap: 43.2 TPA, Metal scrap: 10.5 TPA, Wooden scrap: 9 TPA
	Wet waste:	Not applicable
	Hazardous waste:	Used Oil, Spent mother liquor, Discarded barrels/ containers/ liners, Chemical sludge from waste water treatment, Filter and filter material which have organic liquid, Residue and wastes, Plastic drums/ MS Drums/ Gunny bags, Waste /oil soaked cotton, Spent catalyst + Charcoal, Distillation residue, Off specifications products, Date expired discarded & off specifications drugs/ products/ raw materials, Spent solvent, Flue gas cleaning residue, Resin from DM plants, Used batteries from UPS, Insula
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	STP sludge will be disposed of in CHWTSDF.
	Others if any:	Not applicable
Mode of Disposal of waste:	**Dry waste:**	Dry waste will be disposed off as per norms.
	Wet waste:	Not applicable
	Hazardous waste:	Hazardous waste will be disposed off to CHWTSDF, authorized recycler, re processors.
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	STP sludge will be disposed of in CHWTSDF.
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Details given in EIA report.
	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 O&M cost):	**Capital cost:**	15 Lakhs
	O & M cost:	50 Lakhs per annum

29.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	3-9	6.5 to 8.5	6.5 to 8.5
2	Total Suspended solids	mg/L	1500 to 2000	<100	100
3	Total Dissolved solids	mg/L	5000 to 6000	<2100	2100
4	Chemical oxygen demand	mg/L	30,000 to 32,000	<250	250
5	Biological oxygen demand	mg/L	12,000 to 14,000	<100	100
6	O & G	mg/L	80 to 100	<10	10

Amount of effluent generation (CMD):	278 cmd
Capacity of the ETP:	300 cmd
Amount of treated effluent recycled :	278 cmd
Amount of water send to the CETP:	Proposed project will maintain zero liquid discharge.
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	ETP details given in EIA report.
Disposal of the ETP sludge	ETP sludge will be disposed to CHWTSDF.

30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used Oil	5.1	TPA	0.6	3.4	4	Sale to MoEF /MPCB approved recyclers
2	Spent mother liquor	28.4	TPA	1826.8	0	1826.8	Distillation & Sale to authorized recycler/CHWTSDF
3	Discarded barrels, containers, liners	33.1	Nos./A	3000	30,000	33,000	Sale to authorized recycler/CHWTSDF
4	Chemical sludge from waste water treatment	35.3	TPA	1001.2	2000	3000	CHWTSDF
5	Filter and filter material which have organic liquid	33.2	TPA	7.2	76.8	84	CHWTSDF
6	Residue and wastes	28.1	TPA	10.93	54.07	65	CHWTSDF
7	Plastic drums, MS Drums, Gunny bags	33.1	Nos/A	14,900	--	14,900	Sale to authorized recycler
8	Waste /oil soaked cotton	5.2	TPA	0	1.5	1.5	Sale to registered reprocessor
9	Spent catalyst + Charcoal	28.2	TPA	0	35	35	CHWTSDF
10	Distillation residue	28.1	TPA	0	98	98	CHWTSDF
11	Off spec products	28.4	TPA	0	3	3	CHWTSDF
12	Date expired discarded and off specification drugs / products/ RMs	28.5	TPA	0	12	12	CHWTSDF
13	Spent Solvent	28.6	TPA	0	15,960	15,960	Distillation and sale to authorized vendors
14	Flue gas cleaning residue	35.1	TPA	0	2	2	Sale to authorized vendors
15	Resin from DM Plants	35.2	TPA	0	1	1	Sale to registered reprocessor
16	Used batteries from UPS etc	--	Nos/A	0	100	100	Return to supplier / manufacturer
17	Insulation waste	--	TPA	0	1.5	1.5	CHWTSDF

31.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1 TPH Boiler (Existing)	Furnace oil- 1.5 TPD	1	33	0.3	83
2	2 TPH Boiler (Existing)	Furnace oil- 1.5 TPD	2	33	0.3	--
3	5 TPH Boiler (Proposed)	Furnace oil- 8.568 TPD	3	40	0.5	270
4	5 TPH Boiler (Proposed)	Furnace oil- 8.568 TPD	4	40	0.5	270
5	725 KVA DG set (Existing)	150 Lit/Hr	5	6	as per norms	80

6	1000 KVA DG set (Proposed)	200 Lit/Hr	6	7	as per norms	80
7	1000 KVA DG set (Proposed)	200 Lit/Hr	7	7	as per norms	80

32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace oil	3 TPD	17.136 TPD	20.136 TPD
2	HSD	150 Lit/Hr	400 Lit/Hr	550 Lit/Hr
33.Source of Fuel		From nearby vendors		
34.Mode of Transportation of fuel to site		By road		

35.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	fulfill from existing facility
	DG set as Power back-up during construction phase	existing 725 KVA DG set
	During Operation phase (Connected load):	2000 KVA
	During Operation phase (Demand load):	2000 KVA
	Transformer:	--
	DG set as Power back-up during operation phase:	2 Nos. of 1000 KVA DG set each
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	--

Energy saving by non-conventional method:

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36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Emission From fuel burning source	Stack	Stack

Effluent From utilities, Process	ETP	Up gradation of existing ETP
Noise from utilities	Acoustic enclose, Silencer.	Acoustic enclosure, Silencer.
Solid & Hazardous waste	Waste management system	Waste management system, Authorized recycler, reprocessor

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	40 Lakhs
	O & M cost:	10 Lakhs per annum

38.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	--	--	--

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Pollution Control	Water Pollution Control	600	85
2	Air Pollution Control	Air Pollution Control	25	2
3	Environment Monitoring/management	Environment Monitoring/management	5	5
4	Occupational Health & Safety	Occupational Health & Safety	10	5
5	Green Belt Development	Green Belt Development	15	8
6	Hazardous waste & Solid waste management	Hazardous waste & Solid waste management	15	50
7	Other Green initiatives	- Rain water harvesting	15	5
8	Other Green initiatives	- Solar power / LED	30	5
9	Other Green initiatives	- Energy conservation	10	5

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
Acetone	Existing- 2 nos.	South east side of plot	20 KL each	20 KL each	223 TPA	Jpb Chemical Industries Pvt. Ltd.	By tanker/ drum
n-butanol	Existing- 2 nos.	South east side of plot	20 KL each	20 KL each	178 TPA	JPB Chemicals	By tanker/ drum
Furnace oil	Existing	South east side of plot	20 KL	20 KL	7250 TPA	IOCL/ BPCL	By tanker/ drum

Diesel	Existing	South east side of plot	20 KL	20 KL	as per requirement	nearby vendors	drum
Methanol	Proposed-2 nos.	South east side of plot	20 KL each	20 KL each	1550 TPA	Amjey Chem Trade Pvt. Ltd	By tanker/ drum
Toluene	Proposed-2 nos.	South east side of plot	20 KL each	20 KL each	2511 TPA	Amjey Chem Trade Pvt. Ltd	By tanker/ drum
EDC	Proposed	South east side of plot	20 KL	20 KL	250 TPA	C.J. Shah & Co	By tanker/ drum
Ethyl acetate	Proposed	South east side of plot	20 KL	20 KL	844 TPA	Godavari Biorefineries Ltd	By tanker/ drum
MDC	Proposed-2 nos.	South east side of plot	20 KL each	20 KL each	2554 TPA	BASF Petronas Chemicals Sdn	By tanker/ drum
IPA	Proposed-2 nos.	South east side of plot	20 KL each	20 KL each	3198 TPA	International Solvents And Chemical	By tanker/ drum

40.Any Other Information

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	27-05-2016

3. The proposal has been considered by SEIAA in its SEIAA Meeting No. 110th 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.
II	2 Nos. of 5 TPH Boilers should have stack height of 40m.
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.
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 sectorai parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
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 COMMISSIONERAURANGABAD

6. REGIONAL OFFICE MPCB AURANGABAD

7. REGIONAL OFFICE MIDC AURANGABAD

8. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD

9. COLLECTOR OFFICE JALNA

10. COLLECTOR OFFICE AURANGABAD

11. COLLECTOR OFFICE LATUR

12. COLLECTOR OFFICE NANDED

13. COLLECTOR OFFICE OSMANABAD

14. COLLECTOR OFFICE HINGOLI

15. COLLECTOR OFFICE PARBHANI

16. COLLECTOR OFFICE BEED