Government of Maharashtra

SEAC-2212/CR- 429/TC-2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annex,
Mumbai- 400 032.
Dated: 1st December, 2014

To,

M/s Macrotech Polychem Pvt.Ltd
1-B/7 D. J. Nagar, Boisar,
Tal-Palghar, Thane.

Subject: Environment clearance for proposed expansion with new API products at plot No.L-60 & L-61 at Tarapur MIDC, Dist Thane by M/s Macrotech Polychem Pvt.Ltd

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 77th meeting and decided to 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 73rd meeting.

2. It is noted that the proposal is for grant of Environment Clearance for proposed expansion with new API products at plot No.L-60 & L-61 at Tarapur MIDC, Dist Thane. SEAC-I considered the project under screening category 5(f) B1 of EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of the Project	M/s MACROTECH POLYCHEM PVT. LTD.
Project Proponent	Mr. Pradeep V. Thokade
Consultant	M/s Sadekar Enviro Engineers Pvt. Ltd.
New Project / Expansion	Expansion with new API products in existing factory.
Activity schedule	Schedule 5 (f) ,Project Category -B
Area Details	Total plot Area: 2000 Sq. mtrs, Green Belt Area 700 sq. mtrs
Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	The cost of project is 3 crores. Land - 150 lakhs Building & premises - 35 lakh Plant & machinery & equipment 100 lakh Furniture & fixtures- 7 lakh Any other immovable/fixed asset 8 lakh Total 300 lakhs = 3 crore
Location details of the project :	• Latitude:- 19° 47' 14.39" N' | Longitude:- 72° 43' 30.97" E • Location: - L-60 & L-61, Tarapur MIDC, Boisar • Elevation above Mean Sea Level (meters):- 17 m.

Production details

Existing Products		
Sr.	Name Of Product.	Qty. in MT/A
1	Polyamide Resins	1200
2	Amino Resins	300
3	Pigment	240
4	Total	1740

Proposed Products		
Sr.	Name Of Product.	Qty. MT/A
1	Methyl Benzothiazine Isopropyl Ester	36 MT
2	6 – Chloro – 2 – Oxindole	15 MT
3	2 Amino – 5 Methyl Thiazole	12 MT
4	3-Piperazinyl 1- 1, 2 Benzisothizole Hcl	30 MT
5	4 – Hydrozino Benzene Sulfonamide Hcl	18 MT
6	1-(3- Chorophenyl)-2-[(1,1-Dimethylethyl) Amino]-1-Propanone	24 MT
7	3 Carbonyl Methyl 5 Methyl Hexanoic Acid	15 MT
8	2 Methoxy – 5 (2 Oxopropyl) Benzene Sulfonamide	18 MT
	Total	168 MT/A

Rain Water Harvesting(RWH)

- Level of the Ground water table – 3-4 mt
- Size and no of RWH tank(s) and Quantity 15 m^3
- Location of the RWH tank(s) SW corner of plant
- Size, nos of recharge pits and Quantity. Nil
- Budgetary allocation (Capital cost Rs 2.0 Lakhs)

Total Water Requirement

Total water requirement:

- Fresh water (CMD) : 40 (Existing)
- Fresh water (CMD) : 32 (Proposed)
- Source :M.I.D.C Water supply
- Recycled water (CMD) : 10 CMD

Storm water drainage

Natural water drainage pattern : Yes
Size of SWD: 400mm x 600mm

Sewage generation and treatment

Amount of sewage generation (CMD) - 1.8 CMD
Proposed treatment for the sewage: septic tank followed by aeration tank of ETP

Effluent characteristic

Sr. no	Parameters (pH,BOD,COD ,heavy metal. etc	Inlet effluent characteristic	Outlet effluent characteristic	Effluent discharge standard (CPCB/MPCB)
1	pH	6-8	7	6-9
2	TSS	600-900	105	< 100
3	BOD	800-1000	38	< 100
4	COD	2800-3000	125	< 250
5	O & G	12-16	0.5	< 10

ETP details

- Amount of effluent generation (CMD): 15
- Capacity of the ETP (CMD): 20
- Amount of treated effluent recycled (CMD): 10

	• Membership of the CETP : N.A (as RO and MEE will be provided)
Note on ETP technology to be used	Primary Treatment, Biological treatment and Pressure sand Activated carbon filter & RO, MEE.
Disposal of the ETP sludge	8 MT / Annum- Disposed to CHWTDSF.

Solid waste Management	Sr.	Source	Qty(TPM)	Form (sludge / Dry / slurry etc.)	Composition
	1	ETP Sludge	8	Sludge	Chemical sludge
	2	Distillation residues	0.6	Sludge	Organic Salt
	3	Spent Oil	200 ltr/Annum	Slurry	Organic
	• ETP sludge category 34.3 – 8 MT/A will be disposed to CHWTSDF.It does not contain any hazardous waste. Spent oil Category 5.1 will be sent to authorized reprocessor/ recycler.				

Atmospheric Emissions (Flue gas characteristics SPM, SO_2, NO_x, CO, etc.)	Sr. No	Pollutant	Source of emission	Concentration in flue gas
	1	PM 10	Boiler	67.95 (mg/Nm^3)
	2	SO_2		0.17 (Kg/hr)
	3	PM 2.5	D.G Set	51.30 mg/Nm^3
	4	SO_2		0.04 (Kg/hr)
		Acid Mist	Scrubber	2.98 mg/Nm^3

Stack emission Details:	Plant section & units	Stack no	Height from ground level (M)	Internal diameter (top)(m)	Volumetric Flow Rate (m3/hr)	Temp. of exhaust
	Boiler (1nos)	1	32	0.450m	1100-1200	120-140 °C
	D.G. Set 125 KVA	1	3 mtrs	0.300 m	300-500	125-160 °C
	Scrubber	1	12 mtrs	0.275	180-250	45-50 °C

Emission Standard	Pollutants (SPM,SO_2,ect	Emission standard limit (mg/Nm^3)	Proposed limit (mg/Nm^3)	MPCB consent (mg/Nm^3)
	SPM	150	<150	150
	Acid Mist	35	<35	--
	SO2	360	<360	360

Ambient Air Quality Data	Pollutant	Permissible standard	Proposed concentration (in ug/m^3)	Remarks
	PM 2.5	60 ug/m3	<60	Within limit
	PM 10	100 ug/m3	<100	
	SO_2	80 ug/m3	<80	
	NO_X	80 ug/m3	<80	
	CO	04 mg/m3 (1 hourly)	<4	

<table>
<tr><td>Details of Fuel to be used:</td><td>
<table>
<tr><th>Sr. no</th><th>Fuel</th><th>Daily Consumption (TPD/KLD)</th><th>Calorific value(kcals /kg)</th><th>% ash</th><th>% Sulphur</th></tr>
<tr><td>1</td><td>Briquette</td><td>0.8TPD</td><td>4487</td><td>3.2%</td><td>9 %</td></tr>
<tr><td>2</td><td>F.O</td><td>600 kg/Day</td><td>10,500</td><td>0.1</td><td>9</td></tr>
<tr><td>3</td><td>HSD</td><td>12 Ltr/Hr</td><td>10,000</td><td>3.15%-7.35%</td><td>1.8%</td></tr>
<tr><td colspan="6">Source of fuel: HPCL, BPCL and IOCL
Source of Briquette: local vendor
Mode of transportation of fuel to site: By Road</td></tr>
</table>
</td></tr>
<tr><td>Energy</td><td>Power supply: MSEDCL
Existing power requirement: 150 KVA
DG sets:
Number and capacity DG sets to be = 1x125 KVA,
Details of the non-conventional renewable energy proposed to be used : Nil</td></tr>
<tr><td>Green Belt Development</td><td>Green belt area (Sq. m.): 700 Sq mts
Number and species of trees to be planted :- about 450 Nos.,
The species of plants to be planted are as follows
Khair, Bel, Saptaparni, Ankol, Agar, Palash, Indian labernum, Jarul, Karanj, Sita Ashok, Gum Karaya, Jamun, Arjun, Indian rubber tree, Banyan , Vad, Peepal and Udumbara
The size, age and species of trees to be cut,</td></tr>
<tr><td>Details of Pollution Control Systems</td><td>
<table>
<tr><th>Sr.</th><th>Type</th><th>Existing</th><th>Proposed to be installed</th></tr>
<tr><td>1</td><td>Air</td><td>NIL</td><td>Scrubbers, stack with effective height, condenser and cyclone dust collectors</td></tr>
<tr><td>2</td><td>Water</td><td>NIL</td><td>ETP + R.O+ MEE</td></tr>
<tr><td>3</td><td>Noise</td><td>NIL</td><td>Acoustic Enclosure for DG sets.
Ear mufflers and ear plugs</td></tr>
<tr><td>4</td><td>Solid waste</td><td>NIL</td><td>Disposal to Authorized common facility</td></tr>
</table>
</td></tr>
<tr><td>Environmental Management plan
Budgetary Allocation</td><td>Capital cost (With break up) : 32,00,000/-
O&M cost (With break up) : 9,50,000/-
<table>
<tr><th>Sr.</th><th>Item</th><th>Recurring Cost /Y (Rs.)</th><th>Capital Cost (Rs.)</th></tr>
<tr><td>1</td><td>Air Pollution Control</td><td>75,000/-</td><td>3,50,000/-</td></tr>
<tr><td>2</td><td>Water Pollution Control</td><td>6,00,000/-</td><td>25,00,000/-</td></tr>
<tr><td>3</td><td>Noise Pollution Control</td><td>15,000/-</td><td>50,000/-</td></tr>
<tr><td>4</td><td>Environment monitoring and Management</td><td>80,000</td><td>--</td></tr>
<tr><td>6</td><td>Occupational health</td><td>40,000/-</td><td>--</td></tr>
<tr><td>7</td><td>Green Belt</td><td>60,000/-</td><td>1,00,000/-</td></tr>
<tr><td>8</td><td>Solid west management</td><td>80,000/-</td><td>--</td></tr>
<tr><td>9</td><td>Rain Water Harvesting</td><td></td><td>2,00,000/-</td></tr>
<tr><td></td><td>Total Cost</td><td>9,50,000/-</td><td>32,00,000/-</td></tr>
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3. The proposal has been considered by SEIAA in its 73rd 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 :

(i) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.

(ii) This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.

(iii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.

(iv) PP has to abide by the conditions stipulated by SEAC & SEIAA.PP to ensure that all effluent discharge standards including TSS shall be within the limit as mentioned in MPCB COP

(v) Regular monitoring of the air quality, including SPM & SO2 levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.

(vi) Necessary arrangement shall be made for adequate safety and ventilation arrangement in furnace area.

(vii) Proper Housekeeping programs shall be implemented.

(viii) 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 achieved.

(ix) Stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)

(x) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.

(xi) Arrangement shall be made that effluent and storm water does not get mixed.

(xii) 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.

(xiii) The overall noise levels in and around the plant 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.

(xiv) 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.

(xv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Smoke and Heat detection devices shall also be installed at strategic places for early detection and warning.

(xvi) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

(xvii) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

(xviii) 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.

(xix) The company shall undertake following Waste Minimization Measures :

- Metering of quantities of active ingredients to minimize waste.
- Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
- Maximizing Recoveries.
- Use of automated material transfer system to minimize spillage.

(xx) 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.

(xxi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

(xxii) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.

(xxiii) Separate silos will be provided for collecting and storing bottom ash and fly ash.

(xxiv) 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.

(xxv) 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.

(xxvi) 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

(xxvii) 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.

(xxviii) 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.

(xxix) 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_2, NOx (ambient levels as well as stack emissions) or critical sectorial 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.

(xxx) Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.

(xxxi) A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.

(xxxii) The environmental clearance is being issued without prejudice to the 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 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.

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. The Environment department reserves the right 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.

6. **Validity of Environment Clearance**: The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.

7. 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.

8. 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.

9. Any appeal against this environmental 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.

10. This Environment Clearance is issued for proposed expansion with new API products at plot No.L-60 & L-61 at Tarapur MIDC, Dist Thane by M/s Macrotech Polychem Pvt.Ltd

(Medha Gadgil)
Additional Chief Secretary,
Environment department &
MS, SEIAA

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune – 411014.
3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Thane
7. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
8. Select file (TC-3)

(EC uploaded on 5\12\14)