Government of Maharashtra

No.: EC (POLYGENTA)-
2009/CR.135/TC.1
Environment department
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai 400 032
Dated: 15th February, 2010

To,
M/s. Polygenta Technologies Ltd.
Gat. No. 265/1 – 266, Village – Awankhed,
Tal- Dindhori, Dist – Nashik.

Sub: Proposed expansion activity for manufacturing Facilities for PET products like PLY, Poly chips & Ethylene Glycol. - Environmental clearance regarding.

Sir,

This has reference to your communication letter dated 15th December, 2008 on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee in its 14th meeting and recommended for prior Environment Clearance to State Level Environment Impact Assessment Authority (SEIAA). Subsequent information submitted by you, dated 22nd January, 2010 has also been considered by State Level Environment Impact Assessment Authority in its 19th meeting held on 27th January, 2010.

2. It is noted that the proposal is for grant of environmental clearance for proposed expansion activity for manufacturing Facilities for PET products like PLY, Poly chips & Ethylene Glycol. SEAC consider the project under screening category 5 (d) of EIA Notification 2006

Project information from documents submitted by you & considered by SEAC & SEIAA is summarized as below:

Name of the Project	:	Manufacturing Facilities for PET products like PLY, Poly chips & Ethylene Glycol.
Type of Project	:	Manmade fibers manufacturing unit (5d)
Project in brief	:	Expansion activity for manufacturing Facilities for PET products like PLY, Poly chips & Ethylene Glycol with additional capacity increase, using waste non biodegerdable PET Bottles as basic raw material.
Project Proponent	:	M/s. Polygenta Technologies Ltd.
Location of the project	:	Gat. No. 265/1 – 266, Village – Awankhed, Tal- Dindhori, Dist – Nashik.
Land	:	38,400 sq. m.
Estimated cost of the project	:	Rs. 150 Crore

Production capacity:

- Existing : PET Products : chips, POY, DTY, Flaks : 1155 MT/Month
- Proposed : PET Products : chips, POY, DTY, Flaks : 1845 MT/Month

Total capacity: 3000 MT/Month

Raw material requirement:

1. PTA (Purified Terephthalic Acid):1297 MT/month
2. MEG(Mono Ethylene Glycon) : 540 MT/month
3. Catalyst : 0.54 MT/month
4. Dulling Agent (TiO2): 9.0 MT/month
5. Used PET Bottles : 1650 MT/month

Fuel requirement:

- Furnace oil : Existing : 3 KLD, Proposed : 15.33 KLD
- HSD for DG set : Existing : 0.9 KLD, Proposed : 120 LPH

Water Requirement:
Existing: Water requirement: 219 CMD
Proposed: Water requirement: 217 CMD

Effluent generated from existing plant: 100 CMD; Effluent generated from Proposed plant: 32 CMD

Capacity of ETP: 108 CMD
Entire effluent would be treated in Effluent Treatment Plant and treated effluent will be disposed off as per the MPCB norms.
Domestic effluent would be treated in septic tanks followed by soak pits and overflow from soak pit shall be treated in the existing ETP system. The disposal of the treated effluent shall be as per the MPCB norms.

Solid Waste Management:
Hazardous waste:

- Chemical sludge from Effluent Treatment Plant: 960 Kg/day(Existing) & 50 Kg/day(Proposed) disposal: would be sent to CHWTSDF, Maharashtra Enviro Power Ltd., (MEPL), Ranjangaon, Pune, Maharashtra
- Waste chemicals(lab chemicals+ Resins) : 200 LIT/Month; Disposal : CHWTSDF, Maharashtra Enviro Power Ltd., (MEPL), Ranjangaon, Pune, Maharashtra
- Filter cake (carbon + clay) : 15 MT/Month; Disposal : CHWTSDF, Maharashtra Enviro Power Ltd., (MEPL), Ranjangaon, Pune, Maharashtra
- Oily cotton waste & hand gloves : 50 kg/Month; Disposal : CHWTSDF, Maharashtra Enviro Power Ltd., (MEPL), Ranjangaon, Pune, Maharashtra
- Waste oil: 1.0 Mt/Month; disposal: Authorized reprocessor.

Non- Hazardous waste:

- Polythene & PP Caps & rings: 105 MT/Month; Disposal: Scrap dealer.
- Label & pieces of labels of PVC: 22.5 MT/Month; Disposal: Scrap dealer.
- Sludge of Mud & Dirt: 22.5 MT/Month; Disposal: Scrap dealer.
- HDPE / PP lined bags: 900 bags/Month; Disposal: Scrap dealer.
- Waste yarn, paper tubes and packing: 3 MT/Month; Disposal: Scrap dealer.

Power requirement: Existing: 2.2 MVA; Proposed: 5-6 MVA

Green Belt Development: 22257.7 sq. m. area for green belt.

Air pollution control measures:

- Periodic stack monitoring is proposed to ensure the MPCB consent as maintained well within the norms.
- Details of Themic fluid heater

	Proposed	Existing
Capacity	35 lakh Kcal/ hr	
Fuel used	FO	FO
Fuel consumption	460 KL/Month	03 KLD
Stack Height	40 m	30 m
Stack Diameter	0.800 m	0.600 m
Stack MOC & Shape	MS, round	MS, round
Quantity	1 no.	1 no.

- Details of DG sets as (Operated only during MSEB power failure.)

Capacity	150 KVA
Fuel used	HSD
Fuel consumption	120 LPH
Stack Height	11 m above roof as per MPCB Norms
Stack Diameter	0.200 m
Stack MOC & Shape	MS, round
Quantity	2 no.

Environmental Management Plan: Capital cost will be Rs. 76.64 Lakhs and Recurring cost will be Rs. 20Lakhs.

3. The proposal has been considered by SEIAA in its 19th meeting dated on 27th January, 2010 & 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) "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.

(ii) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.

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

(iv) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. the housing may be in the form of temporary structures to be removed after the completion of the project.

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

(vi) 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 project 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.

(vii) The process emissions and particulate matter from various units shall confirm to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) 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.

(viii) Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall confirm to the limits imposed by MPCB.

(ix) During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.

(x) For control of process emissions, stacks of appropriate height as per the CPCB guidelines shall be provided. The scrubbed water shall be sent to the ETP for further treatment.

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

(xii) 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.

(xiii) The project proponent shall treat the wastewater up the industry specific standards as notified in EPA or as laid down by the MPCB whichever are stringent.

(xiv) Leq of 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.

(xv) 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.

(xvi) 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.

(xvii) 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.

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

(xix) The solid waste shall be properly collected, segregated and disposed as per the provision of solid waste (Management and Handling) Rules, 2000.

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

(xxi) 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. Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.

(xxii) 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.

(xxiii) 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.

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

(xxv) 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

(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://envis.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 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.

(xxx) 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.

(xxxi) 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.

(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 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.

5. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years.

6. No further expansion or modifications in the plant shall be carried out without prior approval of SEIAA. 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.

7. 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.

(Valsa R ~~Nair Singh~~)
Secretary, Environment
department & MS. SEIAA

Copy to:

1. Shri. Ashok Basak, IAS (Retd.), Chairman, SEIAA, 502, Charleville, 'A' Road, Churchgate, Mumbai- 400 020, Maharashtra.
2. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEAC, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerla.
3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
4. 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).
5. Regional Office, MPCB, Nashik.
6. Collector, Nashik.
7. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
8. Director(TC-1), Dy. Secretary(TC-2),Scientist-1,Environment department
9. Select file (TC-3).