To,

Shri K.H. Gopal
President (Corporate Affairs & Secretary)
M/s Alok Industries Limited
Peninsula Towers, Peninsula Corporate Park,
G.K. Marg, Lower Parel, Mumbai - 400 013
Maharashtra.

E-mail : gopal@alokind.com; Fax No.: 09122-24936078

Subject: Expansion of Partially Oriented Yarn (POY, 650 to 1200 MTPD) and Fully Drawn Yarn (FDY, 100 to 400 TPD) Manufacturing Unit at 17/5/1 & 521/1, Village Rakholi, Sayali, Silvassa, Dadra & Nagar, Haveli by M/s Alok Industries Limited. — Environmental Clearance reg.


Sir,

Kindly refer your letter no. nil dated 4th May, 2010 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report and subsequent clarification/ additional information submitted vide letter dated 12th January, 2011 regarding above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that the proposal is for expansion of Partially Oriented Yarn (POY, 650 to 1200 MTPD) and Fully Drawn Yarn (FDY, 100 to 300 TPD) Manufacturing Unit at 17/5/1& 521/1, Village Rakholi, Sayali, Silvassa, Dadra & Nagar, Haveli. River Damanganga is located at 1.66 Km. Interstate Gujarat boundary is at 5 km. Forest zone is at 6 km. No eco-sensitive areas are located within 10 km. Total plot area is 80,000 m² and no new land will be acquired for the expansion project. Total cost of the project is Rs. 580.00 Crores. Following are the details of existing and proposed capacity of the products:

<table>
<thead>
<tr>
<th>S. N.</th>
<th>Product</th>
<th>Existing Capacity (TPD)</th>
<th>Proposed Capacity (TPD)</th>
<th>Total Capacity (TPD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Partially Oriented Yarn (POY)</td>
<td>650</td>
<td>550</td>
<td>1,200</td>
</tr>
<tr>
<td>2</td>
<td>Fully Drawn Yarn (FDY)</td>
<td>100</td>
<td>200</td>
<td>300</td>
</tr>
<tr>
<td>3</td>
<td>Polyester Staple Fiber (PSF)</td>
<td>--</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>750</td>
<td>850</td>
<td>1,600</td>
</tr>
</tbody>
</table>

3.0 Stack (60 m) and stack (32 m) are provided to existing low sulfur heavy stock (LSHS) fired HTF heater (3 Nos.) and steam boiler respectively. LSHS fuel will be switched over to natural gas (NG) whenever natural gas is available. Adequate stack height will be provided...
to proposed LSHS/NG fired Thermopack heater (2 Nos.). Total fresh water requirement from canal water will be increased from 789 m$^3$/day to 1,679 m$^3$/day after expansion. Total wastewater generation will be increased from 349 m$^3$/day to 734 m$^3$/day after expansion. Process effluent (320 m$^3$/day) having high COD concentration will be stripped out in the organic stripping column. Further, treated process effluent along with effluent from washing section and domestic effluent will be treated in the effluent treatment plant (ETP). Treated effluent will be recycled/reused within the factory premises. No effluent will be discharged outside the premises. Polymer waste will be recycled to make fiber. Yarn waste will be recycled back/sold to actual users. Waste oil and used batteries will be sold to authorized recyclers / re-processors.

4.0 Public hearing was exempted as per as per Section 7(i), III. Stage (3), Para (i)(b) of Environmental Impact Assessment Notification, 2006.

5.0 All manmade fibres manufacturing other than rayon are listed at S.N. 5(d) under category 'B'. However, due to location of the project within 10 km of the interstate boundary (Gujarat) and applicability of general condition, proposal is appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 13th Meeting held during 19th-20th August, 2010 and 18th meeting held during 20th-21st January, 2011 respectively. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:
   i) Building design shall be based on green building concept.

   ii) Adequate stack height shall be provided to proposed LSHS/NG fired Thermopack heater (2 Nos.) to control the air emissions within the limit stipulated by DD & DNHPCC. LSHS fuel shall be switched over to natural gas (NG) whenever natural gas is available. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.

   iii) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.

   iv) In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Adequate dust suppression systems with water spray shall be provided for storage yard, junction houses. Raw material loading and unloading area shall be covered and also provided with water spraying system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records maintained. The emissions shall conform to the limits stipulated by the DD & DNHPCC.

   v) For further control of fugitive emissions, following steps shall be followed:
      a) Closed handling system shall be provided for chemicals.
      b) Re flux condenser shall be provided over reactor.
c) System of leak detection and repair of pump/pipeline based on preventive maintenance.

d) The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water. Cathodic protection shall be provided to the underground solvent storage tanks.

vi) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.

vii) The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its 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 DD & DNHPCC. The levels of PM10, SO2, NOx and VOCs in ambient air shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.

viii) The total fresh water requirement from canal water shall not exceed 1,679 m³/day after expansion and prior permission shall be obtained from concerned authority/agency. A copy of permission shall be submitted to the Ministry's Regional Office at Bhopal. No ground water shall be used.

ix) Process effluent generation shall not exceed 320 m³/day. As proposed, process effluent having high COD concentration shall be stripped out in the organic stripping column with the help of steam. Further, treated process effluent along with effluent from washing section and domestic effluent shall be treated in the effluent treatment plant (ETP). Part of treated effluent shall be recycled to cooling make up water. Utility's wastewater shall be recycled and reused after achieving desired water quality.

x) Company shall construct guard pond for collection of treated effluent and shall carry out the water quality test by collecting the treated effluent from the guard pond before application on land. The treated effluent quality shall meet the standards prescribed by the CPCB for land application and testing reports shall be submitted to CPCB and Ministry's regional Office at Bhopal.

xi) No effluent shall be discharged outside the premises and 'Zero' discharge concept shall be adopted.

xii) ETP sludge composition shall be tested for hazardous waste characteristics and disposed off accordingly. Polymer waste shall be recycled to make fiber. Yarn waste shall be recycled back/sold to actual users. Waste oil and used batteries shall be sold to authorized recyclers/re-processors.

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

xiv) The Company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2008 as amended time to time for management of
hazardous wastes and prior permission from DD & DNHPCC shall be obtained for disposal of solid / hazardous waste in the TSDF including boiler ash.

xv) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

xvi) The company shall undertake following waste minimization measures:
   a. Metering and control of quantities of active ingredients to minimize waste.
   b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
   c. Use of automated filling to minimize spillage.
   d. Use of Close Feed system into batch reactors.
   e. Venting equipment through vapour recovery system.
   f. Use of high pressure hoses for equipment cleaning to reduce wastewater generation.

xvii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the OISD 117 norms.

xviii) Risk assessment analysis shall be carried out and all the mitigations measures shall be implemented.

xix) Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.

xx) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water. During rainy season, water reservoir shall be used for water collection and use the same water for the process activities of the project to conserve fresh water.

xxi) Greenbelt shall be developed in 33% area of total land 11.9 ha including land area of POY plant and Alok city. Plantation shall be done as per the guidelines of CPCB to mitigate the effect of fugitive emissions.

xxii) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

B. GENERAL CONDITIONS:

i. The project authorities shall strictly adhere to the stipulations made by the DD & DNHPCC.

ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the DD & DNHPCC and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

iv. The overall noise levels in and around the plant area 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 conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

v. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

vi. Usage of Personnel Protection Equipments (PPEs) by all employees/ workers shall be ensured.

vii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.

viii. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.

ix. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

x. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

xi. As proposed, the company shall earmark Rs. 145.68 Crores and Rs. 31.12 Crores toward capital cost and recurring cost/annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

xii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.

xiii. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance 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 DD & DNHPCC. A
copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

xiv. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board/Committee 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

xv. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

xvi. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

9.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.


(Dr. P. B. Rastogi)
Director

Copy to:-
1. The Secretary, Department of Environment & Forests, Government of Daman, Diu and Nagar Haveli, Daman.
2. The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal -462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Daman, Diu and Nagar Haveli, Daman Pollution Control Committee, Office of the Conservator of Forests, Moti Daman – 396220, Daman.
7. Guard File/Monitoring File/Record File.

(Dr. P. B. Rastogi)
Director