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J-11011/415/2014-IA II (I)

Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Dated: 31st October, 2016

To,
Shri S.A.Luthra
Joint President (Century Chemicas & Safety)
M/s Century Textiles and Industries Ltd.
Industry House 159, Churchgate Reclamation,
Mumbai-400020

Subject: Expansion of Viscous Filament rayon (25000 TPA to 30000 TPA) at P.B. no 22, Murbad Road, Village Shahad, Tehsil Ulhasnagar, district Thane, Maharashtra by M/s Century Textiles and Industries Ltd - Environmental Clearance reg.

Ref.: Your online proposal no. IA/MH/IND2/52300/2014 dated 3rd May, 2016.

Sir,

This has reference to your online proposal no IA/MH/IND2/52300/2014 dated 3rd May, 2016 along with project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report along with Public Hearing Report regarding above mentioned project.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for Expansion of Viscous Filament rayon (25000 TPA to 30000 TPA) at P.B. no 22, Murbad Road, Village Shahad, Tehsil Ulhasnagar, district Thane, Maharashtra by M/s Century Textiles and Industries Ltd. Total existing plot area is 37500 m². No additional land will be acquired for proposed expansion. Out of which, 33% area is earmarked for greenbelt. Total cost of project is 125 crore, of which Rs. 7.0 crore and Rs. 1.6 Crore/ Annum are earmarked towards capital cost and recurring cost per annum for implementation of EMP. It is reported that no National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger/Elephant reserve, Protected forests and other environmental sensitivity exist within 10 km radius. River Ulhas is flowing about 1.2 km from the project site and Kalu River is flowing at a distance of 4.5 Km. Following products will be manufactured;

Sl. No.	Product Name	Existing Quantity (MT/A).	Proposed Additional Quantity (MTPA)	Total (MTPA)
1	Viscose Filament Rayon Yarn	25,000	5000	30,000

2	CS ₂	20,000	--	20,000
3	Sulphuric Acid	76,000	--	76,000
4	(By-Product) Anhydrous Sulphate	16272		19,350

Capacity of Captive Power Plant will be 18 MW. Steam requirement will be 180 MTPD)

3.0 ESP has been provided to existing coal fired boiler to control particulate emissions. Bagfilter and cyclone separator have been provided to coal crushing plant. Alkali scrubber and mist eliminator have been provided to existing sulphuric acid plant. Air washer and air exhaust system have been connected to stack. Power requirement will meet from Maharashtra State Electricity Distribution Company Limited (MSEDCL) and capacity of Captive Power Plant will be increased from 24.6 MW to 26.2 MW. Sulphuric Acid Plants have been provided with DCDA system in order to avoid gas nuisance. A scrubbing system has been provided in the CS₂ so that the gases get scrubbed before going to the atmosphere. Total water requirement will be increased from 15,500 m³/day to 19,550 m³/day after expansion. Out of which, fresh water requirement from Ullas River will be 17,550 m³/day and balance water requirement (2,000 m³/day) will be met from recycled/treated effluent. The total wastewater generation after proposed expansion will be 15585 m³/day. The capacity of existing installed ETP is 16,000 m³/day which is sufficient to treat the increased effluent quantity. Treated effluent will be discharged to the Saline zone of Ulhas Creek through existing pipeline. Fish pond will be constructed in the close vicinity of Effluent Treatment Plant of which Bioassay tests will be conducted which will analyze the survival rate and health of fishes. Yarn waste will be sold to registered vendors. Fly Ash and Bottom Ash will be sent to brick manufacturers. Sulphur Waste is sent to CHWTSDF of M/s. Mumbai Waste Management Limited, Talaja, Dist. Thane (Maharashtra). The Committee suggested them to send spent Vanadium Pentoxide catalyst to the authorized recyclers. Effluent from VFY plant having high concentration of trace element i.e. Zinc is passed through Zinc equalization tank and then pumped to Clariflocculator tank where pH is maintained between 9 to 11 to separate out zinc from effluent. Finally, after concentration of Sludge in decanter, the treated sludge is sent to CHWTSDF of M/s. Mumbai Waste Management Limited, Talaja, Dist. Thane (Maharashtra). Waste heat recovery boiler have been installed to recover waste heat from sulphuric acid plant.

4.0 Public Hearing / Public Consultation meeting was conducted on 13th January, 2016.

5.0 All Rayon manufacturing unit are listed at S.N. 5 (d) under category 'A' and appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 9th meetings held during 27th-28th June, 2016. Project Proponent and the EIA Consultant namely M/s J M Environet Pvt. Ltd., have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. 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:

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A. SPECIFIC CONDITIONS:

- i) ESP and adequate stack height shall be provided to coal fired boiler to control the air emissions within the limit stipulated by CPCB. Low NOx burner shall be provided in Captive Co-generation Power Plant to reduce the NOx emissions.
- ii) The gaseous emissions (SO₂, NOx, CS₂, H₂S, CO, HC) and particulate matter from process and CPP units shall conform to the norms prescribed by the CPCB/GPCB from time to time. 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) Continuous gaseous emission monitoring system (24x7) should be installed to measure SO₂, NOx and Particulate from the CPP stacks and SO₂, CS₂ and H₂S from process plant stacks.
- iv) The Company shall make the effort to clean exhaust containing CS₂ and H₂S gas from rayon plant by adopting state of art technology.
- v) In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the SPCB.
- 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) Total fresh water requirement from Ullas River should not exceed 17,550 m³/day and prior permission shall be obtained from the concerned Authority. No ground water should be used. Efforts should be made to reduce the fresh water requirement by adopting 3 R's (Reduce, Reuse and Recycle) concept.
- viii) Total industrial wastewater generation shall not exceed 15585 m³/day. As proposed, effluent should be treated in the effluent treatment plant. Treated effluent shall be discharged into conveyance system for marine disposal after conforming to the standards prescribed for marine discharge norms and obtaining permission from the SPCB. Treated effluent should be passed through guard pond. Online pH meter, TOC analyzer and flowmeter should be installed. No process effluent shall be discharged in and around the project site. Sewage should be treated in STP. The water quality monitoring report for treated effluent should be submitted to the CPCB and Ministry's regional Office at Nagpur.
- ix) As proposed, effluent recycling RO plant shall be installed to produce 2000 m³/day recycle water. Efforts shall be made for recovery of sodium thiosulphate.
- x) Treated effluent should be passed through guard pond. Online pH meter, flow meter and TOC analyzer should be installed. Sulphide contents in the effluent should also be monitored.

- xi) Fish pond will be constructed in the close vicinity of Effluent Treatment Plant of which Bioassay tests will be conducted which will analyze the survival rate and health of fishes.
- xii) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- xiii) 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 and amended as on date for management of Hazardous wastes and prior permission from APPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. A copy of the same shall be submitted to the Ministry and Ministry's Regional Office at Nagpur.
- xiv) Efforts shall be made for recovery of Zinc from the Zinc sludge. The Company shall conduct study in association with reputed Institution. Action taken report shall be submitted to the Regional Office of MoEF&CC and CPCB.
- 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) All the recommendations mentioned in the Environmental Management Plan, Rapid Risk Assessment Report, Disaster Management Plan and safety guidelines shall be implemented.
- xvii) Boiler ash should be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided.
- xviii) All the fly ash shall be utilized as per Fly ash Notification, 1999 subsequently amended in 2003 and 2008.
- xix) Occupational health surveillance programme should be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre should be strengthened and the regular medical test records of each employee should be maintained separately.
- xx) Dedicated parking facility for loading and unloading of material should be provided in the factory premises. Unit should develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
- xxi) As proposed, green belt over 33 % of the total project area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xxii) All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 13th January, 2016 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Nagpur.

- xxiii) As proposed, Rs 4.88 Crore shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Maharashtra State Pollution Control Board (MPCB), State Government and any other statutory authority.
- 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 SPCB and it shall be ensured that at least one station 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. The Company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vi. During transfer of materials, spillages shall be avoided and gullies drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- vii. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
- viii. 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.
- ix. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report 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.
- x. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.

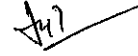
- x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiii. The company shall earmark sufficient funds for recurring cost per 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.
- xiv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.
- xv. 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 State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xvi. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the 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 environmental clearance conditions and shall also be sent to the Lucknow Regional Offices of MoEF by e-mail.
- xvii. 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.
- xviii. 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.

10.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution)

Act, 1981, the Environment (Protection) Act, 1986 Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.



(Lalit Bokolia)
Additional Director

Copy to :-

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032
2. The Additional Principal Chief Conservator of Forests, Regional Office (WCZ), Ministry of Environment, Forest and Climate Change, Nagpur.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi.
6. Guard File/Monitoring File/Record File.



(Lalit Bokolia)
Additional Director

