

F. No.J-11011/431/2017-IA II (I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA Division)

Indira Paryavaran Bhawan  
Jor Bagh Road, N Delhi - 3  
Dated: 11<sup>th</sup> October, 2018

To,

M/s Jesons Industries Limited,  
Survey No.32/2 & 33/2 (a)/ Plot No.A4/2, Part B,  
SIPCOT Industrial Park,  
Village Thervoykandigai, Tehsil Gummidipoondi,  
District Thiruvallur (Tamil Nadu)

**Sub: Expansion of Synthetic Organic Chemicals manufacturing unit by M/s Jesons Industries Limited at Survey No.32/2 & 33/2 (a)/ Plot No.A-4/2, Part B, SIPCOT Industrial Park, Village Thervoykandigai, Tehsil Gummidipoondi, District Thiruvallur (Tamil Nadu) - Environmental Clearance - reg.**

**Ref: Online proposal no. IA/TN/IND2/67591/2017 dated 12<sup>th</sup> July, 2018.**

Sir,

This has reference to your online proposal no. IA/TN/IND2/67591/2017 dated 12<sup>th</sup> July, 2018 along with project documents namely, EIA/EMP report for the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for grant of environmental clearance to the project for expansion of synthetic organic chemicals (mainly Acrylic Polymer Emulsions, Styrene Acrylic Copolymer, Organic colouring matters, Paper Chemical Emulsions, Solvent based Adhesives) manufacturing unit from 41400 TPA to 183000 TPA by M/s Jesons Industries Limited in a total land area of 7.75 acres at Survey No.32/2 & 33/2 (a)/Plot No.A-4/2, Part B, SIPCOT Industrial Park, Village Thervoykandigai, Tehsil Gummidipoondi, District Thiruvallur (Tamil Nadu).

3. The details of existing and proposed products are as under:-

S. No	Products	Quantity (TPA)		
		Existing	Proposed	Total
1	Synthetic Acrylic Polymer Emulsions	18000	33000	51000
2	Industrial Synthetic adhesives and Glues	2400	600	3000
3	Thermosetting Acrylic Resins	9000	0	9000
4	Polymer of Vinyl Acetate	3600	8400	12000
5	Vinyl Copolymers	2400	6600	9000
6	Water Proofing compounds and Construction Emulsions	6000	0	6000
7	Styrene Acrylic Copolymer	-	60000	60000
8	Synthetic Organic coloring matters	-	12000	12000
9	Paper Chemical Emulsions	-	9000	9000
10	solvent based Adhesives	-	12000	12000
<b>Total</b>		<b>41400</b>	<b>141600</b>	<b>183000</b>

4. Existing land area is 31363.087 sqm and no additional land shall be required for the proposed expansion. Industry has already developed greenbelt in an area of 34.79% i.e. 10911.317 sqm. The estimated project cost is Rs.15 crores including existing investment of Rs.14 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.50.7 Lakhs and the Recurring cost (operation and maintenance) will be about Rs.5.9 Lakhs per annum.

5. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves and Wildlife Corridors etc within 10 km from the project site.

6. Total water requirement is estimated to be 374 cum/day, including fresh water of 327.1 cum/day which is proposed to be met from SIPCOT water supply. Total quantum of effluent generated is 21.8 cum/day, which would be treated in the ETP within the premises. There will be no discharge of treated/untreated waste water, and thus ensuring Zero Liquid Discharge.

Power requirement will increase from 250 kVA to 750 kVA, and will be met from Tamil Nadu Electricity Board (TNEB). Existing unit has one DG set of 250 kVA. One more DG set of 500 kVA capacity will be used as standby during power failure. Stack of 11 m height will be provided to the DG set as per CPCB norms. Existing unit has one boiler of 0.85 TPH capacity. Two more boilers of 0.85 TPH capacity each will be installed. Stack of 15 m height will be provided to the proposed boilers.

7. Details of solid waste/hazardous waste generation and its management are as under:

(a) **Solid waste**

S. No	Details of Waste	Quantity( kg/ Month)			Disposal
		Existing	Proposed	Total	
1	Used Paper Waste	50	100	150	Sold as a scrap to authorized buyer
2	Food Waste	50	50	100	Municipal Bins

(b) **Hazardous waste**

S. No	Type of waste	Quantity (TPA)			Disposal
		Existing	Proposed	Total	
1	Used or spent oil	0.6	0.6	1.2	Sent to authorized pre-processors.
2	Chemical sludge from waste water treatment	4.8	7.2	12	Disposed as per the CPCB/TNPCB norms/ sent to TSDF facility.
3	Waste or residues	18	22	40	Disposed as per the CPCB/TNPCB norms/ sent to TSDF facility.
4	Wastes or residues containing oil	1.2	1.2	2.4	Sent for incineration.
5	Concentration or evaporation residues	0	27.75	27.75	Disposed as per the CPCB/TNPCB norms/ sent to TSDF facility.

8. The project/activity is covered under category B of item 5(f) 'Synthetic organic chemicals industry'. However, due to applicability of general condition (4.05 km from inter-state boundary), project requires appraisal at central level by sectoral Expert Appraisal Committee (EAC).

9. The standard ToR for the project was issued on 16<sup>th</sup> November, 2017. Public hearing is exempted as project site is located inside the notified industrial area.

*SKJ*

10. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 40<sup>th</sup> meeting held during 27-29 August, 2018. The project proponent and their accredited consultant M/s Hubert Enviro Care Systems (P) Ltd have presented EIA/EMP report as per the ToR. The Committee found the EIA/EMP Report to be satisfactory and in consonance with the presented ToR. The Committee has recommended the proposal for grant of environmental clearance.

11. Based on the proposal submitted by the project proponent and recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **expansion of synthetic organic chemicals (mainly Acrylic Polymer Emulsions, Styrene Acrylic Copolymer, Organic colouring matters, Paper Chemical Emulsions, Solvent based Adhesives) manufacturing unit from 41400 TPA to 183000 TPA** by M/s Jesons Industries Limited in a total area of 7.75 acres at Survey No.32/2 & 33/2 (a)/ Plot No.A4/2, Part B, SIPCOT Industrial Park, Village Thervoykandigai, Tehsil Gummidipoondi, District Thiruvallur (Tamil Nadu), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

(a) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.

(b) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

(c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(d) National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21<sup>st</sup> July, 2010 as amended from time to time, shall be followed.

(e) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(f) Solvent management shall be carried out as follows:

- (i) Reactor shall be connected to chilled brine condenser system.
- (ii) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
- (iii) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
- (iv) Solvents shall be stored in a separate space specified with all safety measures.
- (v) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
- (vi) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
- (vii) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.

(g) Total fresh water requirement shall not exceed 327.1 cum/day to be met from SIPCOT water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.

*skd*

(h) Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP/RO to meet the prescribed standards.

(i) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.

(j) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.

(k) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.

(l) 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.

(m) Fly ash should be stored separately and handled as per CPCB guidelines. Direct exposure of workers to fly ash & dust should be avoided.

(n) The company shall undertake waste minimization measures as below:-

- (i) Metering and control of quantities of active ingredients to minimize waste.
- (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
- (iii) Use of automated filling to minimize spillage.
- (iv) Use of Close Feed system into batch reactors.
- (v) Venting equipment through vapour recovery system.
- (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

(o) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

(p) At least 2.5% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.

(q) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

(r) 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 norms.

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

(t) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit

*skl*

shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

**11.1** The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

(i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.

(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry. In case of deviations or alterations in the project proposal from those submitted to this Ministry, a fresh reference shall be made 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 State Pollution Control Board (SPCB) 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 National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be complied with.

(v) 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. 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).

(vi) The Company shall harvest rainwater from roof tops of the buildings to recharge the ground water and utilize the same for different industrial operations within the plant.

(vii) 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.

(viii) The company shall 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 shall be implemented.

(ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for 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) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.

*skd*

(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom 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&CC, the respective Zonal office of CPCB and SPCB. 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 31<sup>st</sup> March in Form-V as is mandated shall be submitted 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 environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC 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://moef.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.

12. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991, read with subsequent amendments therein.

*SK*  
11/10/2018  
(S. K. Srivastava)  
Scientist E

**Copy to:-**

1. The Principal Secretary, Department of Environment and Forests, Government of Tamil Nadu, Namakkal Kavignar Maaligai, Fort St. George, **Chennai** - 9
2. The APCCF(C), MoEF&CC, Regional Office (SEZ), 1<sup>st</sup> and 2<sup>nd</sup> Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, **Chennai**-34
3. The Member Secretary, Central Pollution Control Board Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** -32
4. Member Secretary, Tamil Nadu Pollution Control Board, 76, Anna Salai, Guindy Industrial Estate, Race View Colony, Guindy, **Chennai** - 32 (Tamil Nadu)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Zor bagh road, **New Delhi**
6. Guard File/Monitoring File/Record File

*SK*  
11/10/2018  
(S. K. Srivastava)  
Scientist E