

**F.No. J-11011/313/2016-IA II (I)**  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA-II Division)

Indira Paryavaran Bhawan  
Jorbagh Road, New Delhi – 3  
Dated: 23<sup>rd</sup> October, 2017

To,

M/s JSW Paints Private Limited  
Jindal Mansion, 5A, Dr. G. Deshmukh Marg,  
**Mumbai- 400 026**  
Maharashtra

**Sub: Proposed to set up a 200,000 KLPA capacity Plant for Paint Manufacturing Facilities at villages Toranagallu & Musenayakana Halli, District Ballari (Karnataka) by M/s JSW Paints Pvt Ltd - For Environmental Clearance -reg**

**Ref.: Online proposal no. IA/KA/IND2/60157/2016 dated 23<sup>rd</sup> June, 2017.**

Sir,

This has reference to your online proposal no. IA/KA/IND2/60157/2016 dated 23<sup>rd</sup> June, 2017 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. The Ministry of Environment, Forest and Climate Change has examined the proposal for Environmental Clearance for setting up a 200,000 KLPA capacity water based decorative paint with 40000 TSRPA emulsion copolymer manufacturing plant at villages Toranagallu & Musenayakana Halli, District Ballari (Karnataka).

3. The Proposed Product and their Capacities are reported to be as under:

S. No	Products	Quantity
1	Water based decorative paints	200000 KLPA
2	Water based emulsion copolymer	40000 TSRPA

4. The estimated project cost is Rs. 600 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs 17 Crores and the recurring cost (operation and maintenance) shall be about Rs. 2.5 Crores per annum. Total Employment shall be 400 persons as direct & 200 persons indirect after expansion. Industry proposes to allocate Rs. 15 Crores towards Corporate Social Responsibility.

5. The total land area of 271139 m<sup>2</sup> shall be used for proposed project. Industry shall develop greenbelt in an area of 33 % i.e. 90000 m<sup>2</sup> out of 271139 m<sup>2</sup> area of the project as given in EIA/EMP report. It is noted that Daroji Bear Sanctuary lies within 10 km distance from the project site.

6. Ambient air quality monitoring was carried out at 9 locations during Dec 2016 to Feb 2017 and the baseline data indicates that ranges of concentrations of PM<sub>10</sub> (45.5 – 68.9 µg/m<sup>3</sup>), PM<sub>2.5</sub>



(11.7 - 22.6 µg/m<sup>3</sup>), SO<sub>2</sub> (9.9 – 16.7 µg/m<sup>3</sup>) and NO<sub>2</sub> (<10 – 11.5 µg/m<sup>3</sup>) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.059 µg/m<sup>3</sup>, 0.08 µg/m<sup>3</sup>, 0.4 µg/m<sup>3</sup> and 2.36 µg/m<sup>3</sup> with respect to PM<sub>10</sub> from flue gas stacks, PM<sub>10</sub> from dust collector attached to RM Silos, SO<sub>x</sub> and NO<sub>x</sub>. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

7. Total water requirement is 629 m<sup>3</sup>/day of which fresh water requirement of 530 m<sup>3</sup>/day shall be met from existing allocation of JSW Steel Ltd and allowed by Government of Karnataka vide GO No. CI 270 SPI 2016, Bengaluru dated 20<sup>th</sup> October, 2016. Effluent of 109 m<sup>3</sup> shall be treated through ETP/STP followed by RO. Plant shall be based on Zero Liquid discharge system.

8. Power requirement of 5.5MW shall be met from JSW Energy Ltd. Additionally 500 kVA DG sets shall be used as standby during power failure. Stack (height 30 m) shall be provided as per CPCB norms to the proposed DG sets. Mixed fuel (mixed gas/HSD) fired boilers of 3 TPH shall be installed.

9. Details of process emissions generation and its management:- PM<sub>10</sub> - 0.059 µg/m<sup>3</sup> through flue gas stack and 0.08 µg/m<sup>3</sup> through vents of RM Silo, SO<sub>2</sub> - 0.4 µg/m<sup>3</sup> through flue gas stack, NO<sub>x</sub> - 2.36 µg/m<sup>3</sup> through flue gas stack and VOC - 0.01 µg/m<sup>3</sup> through process vents. The predicted impact levels are within the permissible limits. The project proponent committed following mitigation measures as under: -

- Closed loop system for handling raw materials
- Attenuation of pollution through greenbelt.
- Dust collectors and wet scrubbers
- Regular air quality monitoring
- All trucks shall be PUC Certified
- DG Sets to run only during power failure.

10. Details of Solid waste/ Hazardous waste generation and management are as under: -

S. No.	Waste Description	Generation Per annum	Unit	Disposal Method
1	Oil contaminated with wash water & sludge	8	MT	Co-processing/Incinerator/TSDF
2	Sludge and filters contaminated with oil	8	MT	Co-processing/Incinerator/TSDF
3	Used / Spent Oil	20	MT	Sale to authorizer recycler
4	Contaminated aromatic, aliphatic or naphthenic solvents, may or may not be fit for reuse	100	MT	Co-processing/ Sale to authorized recyclers/ Incineration at TSDF
5	Distillation Residues	40	MT	Co-Processing/Incinerator/TSDF
6	Process Waste	500	MT	Co-processing/ Sale to authorized recycler/ Incineration/ TSDF
7	Wastes / residues	70	MT	Co-processing/ Sale to authorized recycler/ Incineration/ TSDF

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8	Wastes / residues such as filter aids	15	MT	Co-processing/Incineration/TSDf
9	Chemical containing residue arising from decontamination	15	MT	Processing/Incineration/TSDf
10	Discarded containers / barrels /liners contaminated with hazardous wastes / chemicals (Liners)	5	MT	Sale to authorized recycler/Coprocessing/TSDf
11	Discarded containers / barrels /liners contaminated with hazardous wastes / chemicals (Packing material and sample containers)	30	MT	Sale to authorized recycler/Co processing/TSDf
12	Discarded containers/ barrels/liners contaminated with hazardous wastes/ chemicals (Barrels/ Carboys/Drums/Totes/IBC's)	25000	Nos	Sale to Authorized vendors
13	Flue gas cleaning residue	2	MT	Incineration at TSDf/ Co-processing/ Secured Landfill at TSDf
14	Spent Ion Exchange Resin containing toxic metals	8	MT	Co-processing/Incineration/ Secured Landfill at TSDf/Authorized recycler
15	Chemical sludge from wastewater treatment (dry basis)	400	MT	Co-processing/Incineration/TSDf
16	Oil and Grease skimming residue	10	MT	Co-processing/Incineration/TSDf
17	Ash from incineration of hazardous waste	50	MT	Co-processing/ Secured Landfill at TSDf
18	Lead Acid Batteries	400	Nos.	Sale back to supplier
19	Spent Carbon	4	MT	Return to supplier for regeneration/ Incineration- In house / Co-processing

11. The project/activity is covered under category B of item 5(h) 'Integrated Paint Industry' of the Schedule to Environmental Impact Assessment Notification, 2006, and requires appraisal at State level by the SEAC/SEIAA in the Ministry. However, due to SEIAA not functional at the time of applying for EC (23<sup>rd</sup> June, 2017), the project was appraised at Central Level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

12. The Terms of References (ToR) for the project was issued by Ministry vide letter dated 28<sup>th</sup> February, 2017 and the public hearing was conducted by the State Pollution Control Board on 23<sup>rd</sup> May, 2017.

13. The proposal was reconsidered by the Expert Appraisal Committee (Industry-2) in its 28<sup>th</sup> meeting held during 18-20 September, 2017. Project Proponent and the accredited consultant M/s Kadam Environmental Consultants, have presented EIA / EMP report as per the ToR. EAC



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.

**14.** Based on the information submitted by the project proponent and recommendation of EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance for '**Setting up a 200000 KLPA capacity water based decorative paint with 40000 TSRPA emulsion copolymer manufacturing plant**' by M/s JSW Paints Private Ltd in a total area of 271139 m<sup>2</sup> located at Toranagallu & Musenayakanahalli villages, District Ballari (Karnataka) by M/s JSW Paints Pvt Ltd under the provisions of EIA Notification, 2006, subject to the compliance of the terms and conditions as below:

- (a) The environmental clearance is subject to obtaining prior clearance from the wildlife angle including clearance from the Standing Committee of the National Board for Wildlife as applicable. Grant of environmental clearance does not necessarily imply that Wildlife Clearance shall be granted to the project and that their proposals for Wildlife Clearance will be considered by the respective authorities on their merits and decision taken. The investment made in the project, if any, based on environmental clearance so granted, in anticipation of the clearance from wildlife angle shall be entirely at the cost and risk of the project proponent and Ministry of Environment, Forest & Climate Change shall not be responsible in this regard in any manner.
- (b) 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.
- (c) As proposed by the project proponent, zero liquid discharge shall be ensured and no waste/treated water shall be discharged to any surface waterbody, sea and/or on land. Domestic sewage shall be disposed off through septic tank/ soak pit.
- (d) Only water based paint shall be manufactured, and no solvent based paint to be manufactured without prior permission from Ministry.
- (e) No Lead and Chromium based paint shall be manufactured.
- (f) 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.
- (g) 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.
- (h) 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 and amended from time to time shall be followed.
- (i) 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.
- (j) Total fresh water requirement shall not exceed 530 cum/day to be met from the present allocation for M/s JSW Steel Ltd. Prior permission in this regard shall be obtained from concerned regulatory authority/CGWA.
- (k) 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 and then passed through RO system.
- (l) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- (m) 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.
- (n) 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.
- (o) 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.
- (p) 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.
- (q) The green belt of 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 and in consultation with the State Forest Department.
- (r) At least 5% of the total project cost shall be allocated for Enterprise Social Commitment and the details along with time bound action plan shall be submitted to the Ministry's Regional Office.



- (s) 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.
- (t) 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.
- (u) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (v) Raw material storage should not exceed 3 days at any point of time

**14.1** 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 of Environment, Forest and Climate Change. 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 State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each 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. 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).
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains 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.

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- (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.
- (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.

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



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

17. 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, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
23/10/2017  
**(S. K. Srivastava)**  
**Scientist E**

**Copy to: -**

1. The Principal Chief Conservator of Forests, Forests department, Government of Karnataka, Aranya Bhawan, 18<sup>th</sup> Cross, Malleshwaram, **Bengaluru- 560003**
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SZ), Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wings, 17<sup>th</sup> Main Road, Koramangala II Block, **Bengaluru – 560034**
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, East Arjun Nagar, **Delhi - 32.**
4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, No. 49, 4<sup>th</sup> & 5<sup>th</sup> Floor, Church Street, **Bengaluru-560001**
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, **New Delhi.**
6. Guard File/Monitoring File/Record File.

  
23/10/2017  
**(S. K. Srivastava)**  
**Scientist E**

Point wise six month Compliance (from October-2018 to March-2019) to the Environmental Clearance accorded to set up a 200,000 KLPA capacity Paint Manufacturing Facility at Toranagallu and Musenayakanahalli villages, District Ballari in Karnataka by Ms.JSW Paints Pvt Ltd No. J11011/313/2016-IA,II(I) dated 23.10.2017		
S.No	EC Conditions	Remarks
14.a	The environmental clearance is subject to obtaining prior clearance from the wildlife angle including clearance from the Standing Committee of the National Board for Wildlife as applicable. Grant of environmental clearance does not necessarily imply that Wildlife Clearance shall be granted to the project and that their proposals for Wildlife Clearance will be considered by the respective authorities on their merits and decision taken. The investment made in the project, if any, based on environmental clearance so granted, in anticipation of the clearance from wildlife angle shall be entirely at the cost and risk of the project proponent and Ministry of Environment, Forest & Climate Change shall not be responsible in this regard in any manner.	MoEF&CC had published draft notification on Daroji Bear Sanctuary on 18/09/2018. MoEF&CC ESZ expert committee recommended on 28th Feb 2019 for final notification. The ESZ as per this notification vary from a distance of 1 km to 4.7 kms from the boundary of Daroji Bear Sanctuary. The distance of our site from the boundary of the sanctuary is 9.5 kms. We have also made an application for the clearance from the standing committee of NBWL on 1st Aug 2017.
14.b	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.	Received Consent To Establish from KSPCB - CTE - 305100 dated 7th Feb 2018. Copy of the same is attached herewith. Received Consent To Operate from KSPCB - CFO - AW-312405 dated 26th Apr 2019. Copy of the same is attached herewith.
14.c	As proposed by the project proponent, zero liquid discharge shall be ensured and no waste/ treated water shall be discharged to any surface waterbody, sea and/or on land. Domestic sewage shall be disposed off through septic tank/ soak pit	Being Complied with.
14.d	Only water based paint shall be manufactured, and no solvent based paint to be manufactured without prior permission from Ministry.	Only water based paint will be manufactured.
14.e	No Lead and Chromium based paint shall be manufactured.	Lead and Chromium based paint will not be manufactured.
14.f	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.	Being Complied with.
14.g	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.	Will be complied.
14.h	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R 608(E) dated 21st July, 2010 and amended from time to time shall be followed.	Will be complied
14.i	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.	We have raised an amendment request to the following conditions and we received clarification vide EAC Minutes 25th - 27th June 2018 with agenda no. 38.6.1 that the project proponent is not bound to comply with any of the conditions which are not applicable Point No. (i) to (v), (vi) Not applicable now as reactor will be installed in phase-2.  Point No. (vi) Not applicable for the entire plant as we are going to set up a water based paint plant.
14.j	Total fresh water requirement shall not exceed 530 cum/day to be met from the present allocation for M/s.JSW Steel Ltd. Prior permission in this regard shall be obtained from concerned regulatory authority/CGWA.	Fresh water consumption will not exceed 530 cum/day
14.k	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 and then passed through RO system.	In our plant only low TDS & low COD effluents are generated. These effluents are treated in the ETP followed by RO, MEE & ATFD.
14.l	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Process effluent drains and storm water drains are provided separately. Hence there will not be any mix up of process effluent with storm water
14.m	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.	Not applicable as solvents are not handled currently
14.n	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.	Will be complied.
14.o	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Not applicable currently
14.p	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 dearing to reduce wastewater generation.	☒ Nos (i), (iii) and (vi) complied. ☒ No (ii) will be complied by October 2019 ☒ No (iv) and (v) are not applicable in Phase I
14.q	The green belt of 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 FCDB guidelines and in consultation with the State Forest Department.	As stipulated, green belt development is being implemented
14.r	At least 5% of the total project cost shall be allocated for Enterprise Social Commitment and the details along with time bound action plan shall be submitted to the Ministry's Regional Office.	Will be complied.
14.s	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.	Will be complied
14.t	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.	Complied.
14.u	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Will be complied.

14.v	Raw material storage should not exceed 3 days at any point of time	EC condition amended as " In case of raw materials identified as the hazardous one under the MSHC Rules, 1989, the statutory provisions contained therein shall continue to be followed. For the remaining raw materials, storage shall not exceed 30 days at any point of time". Amendment accepted with Agenda no.38.6.1.2 by the Expert Appraisal Committee (EAC) members in the meeting held during 25- 27 June,2018 at Ministry of Environment, Forest and Climate Change, New Delhi ( Copy enclosed) Currently we donot have any raw material covered under MSHC rules
14.1	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.	We have complied with the conditions stipulated by the State Pollution Control Board
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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.	Agreed and will be complied with
(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 station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied.
(iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.	Complied.
(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. 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).	The noise levels are within the stipulated levels
(vi)	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	Will be complied
(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.	Training on health and safety aspect is being imparted. Pre- employment medical examination is being carried out on regular basis
(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/ BMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.	Will be complied.
(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-velopmental measures shall be undertaken for overall improvement of the environment.	Will be done in co-ordination with JSW Foundation
(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.	We have set up a environment management cell in JSW Paints. Full fledged laboratory is being set up and meanwhile we are using the NABL approved lab set up of JSW Steel which is in the same complex
(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.	We have allocated 17.5 Cr towards Pollution Control Measures and Rs 2.5 Cr for Operational expenses . In Phase I we have spent 6.13 Cr till March 2019 towards Pollution Control Measures and budgeted 0.5 Cr for operational expenses for the year 2019-20
(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 whom suggestions/ representations, if any, were received while processing the proposal.	Complied.
(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.	Six monthly compliance reports are being submitted regularly . Copy of EC and six monthly compliance will be posted in the website
(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 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.	Will be complied
(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 <a href="http://moef.nic.in">http://moef.nic.in</a> . 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.	Complied.
15	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Noted.
16	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted and agreed.
17	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted