

Point wise six month Compliance ( from Apr-2021 to Sep -2021) to the Environmental Clearance accorded to set up a 200,000 KPA capacity Paint Manufacturing Facility at Toranagallu and Musenayakanahalli villages, District Ballari in Karnataka by Ms JSW Paints Pvt Ltd No. J-11011/313/2016-IA.II(Q) dated 23.10.2017		
Sl.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 final notification on Daroji Bear Sanctuary on 25/09/2019. 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. Copy of final notification is attached.
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	We have installed a combined ETP-STP with a capacity of 83 KLD. The combined ETP is connected to RO plant. The RO reject is fed to MEE and ATFD. The ETP is operational now. Domestic sewage is collected into a septic tank from where it is taken to combined ETP for treatment. We are not discharging waste / treated water to any surface water body.
14.d	Only water based paint shall be manufactured, and no solvent based paint to be manufactured without prior permission from Ministry.	We are manufacturing only water based paints
14.e	No Lead and Chromium based paint shall be manufactured.	Lead and Chromium based paint are not 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.	Bag filters are installed to control fugitive emissions. Stack is provided to disperse the gaseous emission from the diesel generator
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.	We have received Authorization for Hazardous Waste Handling & Management , bearing No. 316905 dated 29/01/2020. Copy of the same is attached herewith
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.	We have noted and agree to the condition
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 <u>EC Minutes 25th - 27th June 2018 with agenda no. 38.6.1</u> that the project proponent is not bound to comply with any of the conditions which are not applicable <u>Point No. (i) to (v), (vii)</u> Not applicable now as reactor will be installed in phase-2.  <u>Point No. (vi)</u> Not applicable for the entire plant as we have 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.	Current average fresh water consumption from the allocation to M/s JSW Steel is 117.56 cum per 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
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	We donot carry any stock of process organic residue and spent carbon. Also there is no generation of process inorganic & evaporation salt yet. We have disposed off 63.49 T of ETP sludge to M/s MEEPL, Bangalore during the period
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 , as none of our raw materials fall under the MSHC rules
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 clearing to reduce wastewater generation.	(i) - We handle all active ingredients through closed loop and the pneumatic conveying & pigging systems ensure minimisation of waste (ii) - Implemented reuse scheme of wash water (iii) - We use automated filling systems thereby minimising spillages (iv) - We use high pressure cleaning systems to reduce waste water generation.  Sr 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 CPCB guidelines and in consultation with the State Forest Department.	Green belt development is ongoing and as on now we have covered -27% of the total project area and photographs of the same are attached. As on 31/03/2022 , we have planted 3353 Nos trees, 7618 Nos shrubs and developed 8879 m2 lawns. By Aug '22 , 33% of area will be covered.
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.	Noted
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.	DG set is installed with acoustic enclosure and the stack height is as per the guidelines.
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.	We have installed fire detection / alarm & fighting systems. The same has been inspected by the CFO, Kalburagi and Fire NOC & CC are issued Copy of the Fire NOC & CC are attached herewith
14.u	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is being done yearly basis and records maintained as per the Factories Act.

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 MSIHC 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) We donot have any raw material covered under MSIHC 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. We are submitting CFO condition compliance statement to the Board regularly.
(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 stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied. We are monitoring Ambient Air Quality at various locations
(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. Consolidated monitoring results is attached herewith
(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 leveles are within the stipulated levels. The compressors , diesel generators , blowers etc are provided with acoustic enclosures
(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.	Rain water from roof tops is connected to the stormwater drain which in turn is connected to the rain water harvesting pit.
(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/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.	We are implementing the recommendations made in the EIA in respect of environmental management
(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.	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 set up for regular monitoring. List of people employed in the environment department is attached herewith
(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.	In Phase I we have spent 6.28 Cr towards Pollution Control Measures
(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.	Complied. We have sent copy of the clearance letter to concerned bodies.
(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 .Compliance report for the period Oct 2020 - Mar 2021 was submitted in the month of Aug 2021. Copy of EC and six monthly compliance have been posted in our company website - www.jswpaints.in
(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.	We have submitted Form-V for the FY 2020 -21 as per the timelines on 13/10/21. Copy of the same is attached herewith
(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. We had advertised the details of EC in two local news papers
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 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.	Noted

Pointwise Compliance to the Combined Consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act, 1974 and emission under the Air (Prevention and Control of Pollution) Act 1981, of M/s JSW Paints Private Limited located at Survey number 416,504,505,506,515 of Toranagallu & 17,18,19,20 of Musenayakanhalli Village, Vidyanagar Post, Sandur Taluk, Ballari District - 583 275

CFO Number AW-312405 dated 26th Apr 2019

**TERMS AND CONDITIONS**

Condition	Compliance
<b>A. Treatment and disposal of effluents under the water act</b>	
1 The discharge from the premises of the occupier shall pass through the terminal manhole / manholes where from the board shall be free to collect samples in accordance with the provisions of the act/rules made there under	The condition is not applicable. The plant is designed based on Zero Liquid Discharge concept
2 (a) The sewage / domestic effluent shall be treated in septic tank and with soak pit . No overflow from the soak pit is allowed. The septic tank and soakpit shall be as per IS 2470 Part I & Part II (b) The treated sewage effluent discharged shall conform to the standards specified in Annex -I	This condition is not applicable as mentioned in CFE
3 (a) The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall conform to the standards stipulated by the Board in Annex - I (b) The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day	As stipulated in CFE , we have provided combined ETP with RO , MEE and ATFD. The effluents are treated and recycled back for cooling tower topup / reused in gardening. Sr No 3(b) is not applicable
4 The applicant shall install flow measuring / recording devices to record the discharge quantity and maintain the record	Complied and record maintained
5 The applicant shall not change or alter either the quality or quantity or the place of discharge or temperature or point of discharge without previous consent or permission of the board	Noted and agreed
6 The applicant shall not allow the discharge from other premises to mix with the discharge from his premises Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed	Storm water and effluent drains are provided separately and they are not allowed to mix
7 The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order	Agreed and complied
8 The applicant shall discharge the effluents only to the place mentioned in the consent order and discharge of treated / untreated outside the premises is not permitted	Noted and agreed
<b>B. Emissions</b>	
1 The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks / chimneys as mentioned in Annexure II where from the board shall be free to collect samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure II	For fugitive emission control ,the RM silos (Source No. 1) are provided with ventilating bag filters and no stacks are provided
2 The applicant shall provide port holes for sampling of emissions , access platforms for carrying out stack sampling , electrical points and all other necessary arrangements including ladder as indicated in Annexure - II	For fugitive emission control ,the RM silos (Source No. 1) are provided with ventilating bag filters and no stacks are provided
3 The applicant shall upgrade / modify / replace the control equipment with prior permission from the board	Noted and agreed
<b>C. Monitoring &amp; Reporting</b>	
1 The applicant shall get the samples of effluents & emissions collected and get them analysed once a month either by an inhouse laboratory or through EP approved laboratories for the parameters as indicated in Annexure I & II	As stipulated , the analysis is being carried out by MoEF accredited Laboratory - M/s Care Labs
2 The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection	Being complied with
<b>D. Solid Waste (Other than Hazardous Waste ) Disposal</b>	
1 The applicant shall segregate the solid waste from Hazardous waste , Municipal Solid Waste and store it properly till treatment / disposal without causing pollution to the surrounding environment	We have received HWA from the board vide HWA No.316905 dated 29/01/20
2 The solid waste generated shall be handled and disposed by scientific method without causing eye sore to the general public and to the surrounding environment	Being complied
<b>E. Noise Pollution Control</b>	
1 The applicant shall ensure that the ambient noise levels within its premises shall not exceed the limits ie, 75 dB(A)Leq during daytime and 70dB(A)Leq during night time as specified in under the Air (Prevention and Control of pollution) Act,1981	Being complied
<b>F. Hazardous and Other wastes ( Management &amp; Transboundary Movement ) Rules 2016</b>	
	Being complied
<b>G. General Conditions</b>	
1 The applicant shall not allow the discharge from other premises to mix with the discharge from his premises	Being complied
2 The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorised in this behalf	Noted and agreed
3 The applicant shall set up an Environment cell comprising of qualified and competent personnel for complying with the conditions specified	Environment cell has been set up with qualified personnel
4 The Board reserves the right to review , impose additional conditions, revoke , change or alter terms and conditions of this consent	Noted and agreed
5 The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/ effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact	Noted and agreed
6 The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments	DG Set provided
7 The entire premises shall always be kept clean . The effluent holding area , inspection chambers, outlets, flow measuring points should be made easily approachable	Complied
8 The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board	Complied
9 The applicant , his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent	Noted
10 The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent	Noted
11 The applicant shall develop and maintain adequate green belt all around the periphery	Green belt development is ongoing and as on now we have covered -26% of the total project area and photographs of the same are attached.As on 31/03/2021 , we have planted 2978 Nos trees, 7618 Nos shrubs and developed 8879 m2 lawns. By Oct '21 , 33% of area will be covered.
12 The applicant shall provide rain water harvesting system and provide proper storm water management system	Rooftop Rainwater harvesting structure is provided
13 This consent is issued without prejudice to any Court cases pending in any Hon'ble court	Noted and agreed
14 The applicant shall furnish the Environmental Statement for every financial year ending March 31st in Form - V as per Environment(Protection) Rules , 1986. The statement shall be furnished before the end of September	Will be complied
15 The applicant shall display flow diagram of the pollution control system near the pollution control systems	Complied . Displayed at the plant entrance notice board
<b>NOTE</b>	
The conditions Nil mentioned in the schedule are not Applicable	Noted

**Additional Conditions to accompany combined consent for operation order of M/s JSW Paints Private Limited located at Survey number 416,504,505,506,515 of Toranagallu & 17,18,19,20 of Musenayakanhalli Village , Vidyannagar Post,Sandur Taluk,Ballari District - 583 275**

**CFO Number AW-312405 dated 26th Apr 2019**

	Condition	Remarks
<b>A</b>	<b>Treatment and Disposal of effluents under the water act</b>	
	1 The source of water shall be from M/s JSW Steel Limited , Bellary and the quantity of water shall not exceed 318 KLD	Noted and agreed . Average consumption for last six months is 107 KLD
	2 The quantity of effluent generation and mode of disposal shall be as per Annexure - I	Noted and complied with
	3 Entire ETP premises shall be kept clean . The ETP site, inspection chamber , Outlets , flow measuring points (meter to be provided) shall be made accessible to the inspecting officers	Complied
	4 The applicant shall construct RCC drains with cover to convey trade effluent to ETP for treatment and disposal	Closed CPVC pipe lines encased with concrete are provided to convey trade effluent to ETP
	5 Industry shall provide a separate drainage system for storm water management. The storm water shall not be allowed to mix with treated effluent	Separate storm water drains and effluent drains are provided. Storm water will not be allowed to mix with trade effluent
	6 The applicant shall submit the status of implementation of storm water management plan integrated with rain water harvesting within 30 days	Storm water drains are provided and are connected to Rainwater harvesting pond
	7 The applicant shall discharge the treated effluent only for gardening in land owned by industry.The application of treated effluent for gardening shall be controlled so as to avoid flooding of land and contamination of ground water.The applicant shall provide /install network of pipeline with drip irrigation facilities for utilisation of treated trade effluent within the industry premises.Entire treatment and disposal system of effluent shall be operated with Zero Liquid Discharge concept	As stipulated in CFE , we have provided combined ETP with RO , MEE and ATFD. The effluents are treated and recycled back for cooling tower topup / reused in gardening.
	8 The industry shall provide flow measuring device at both inlet and outlet of the effluent treatment plant	Complied
	9 The applicant shall display board at the ETP area showing the approved flow sheet of effluent treatment scheme along with the discharge standards stipulated in the consent order	Complied . Displayed at the plant entrance notice board
	10 The applicant shall paint the name and capacity of each unit of ETP	Complied
	11 The applicant shall monitor the quality of effluents for the parameters stipulated as per the frequency indicated	Being complied with
	12 Use of high pressure hoses for equipment cleaning system shall be followed to reduce effluent generation	Complied

<b>B</b>	<b>Discharge of emissions under the Air act</b>		
	1	The applicant shall operate the air pollution control equipment as mentioned in Annexure II, continuously so as to ensure that the emissions does not exceed the limits specified.The operation of the equipment shall be synchronised with the operation of the emission source	Complied
	2	The applicant shall maintain the port hole ,access platforms for carrying out stack sampling with electrical outlet points for sampling the emissions from the port holes in the stacks as per the guidelines	For fugitive emission control ,the RM silos (Source No. 1) are provided with ventillating bag filters and no stacks are provided. Hence stack monitoring is not applicable
	3	The applicant shall monitor the stack emissions once in three months and shall submit monitoring reports within 15 days from the date of collecting the samples	For fugitive emission control ,the RM silos (Source No. 1) are provided with ventillating bag filters and no stacks are provided. Hence stack monitoring is not applicable
	4	The applicant shall monitor the ambient air quality monitoring around the industry at three locations once a month as per the National Ambient Air Quality standards and submit the monitoring report to Regional Office - Bellary.The applicant shall provide one continuous ambient air quality monitoring station for monitoring PM2.5,PM10,SO2,NOX & CO	AAQ monitoring results are being submitted regularly. Continuous ambient air quality monitoring station installed by JSW Steel at Sulthanpur covers the JSW Paints location also and the same data will be submitted
	5	The applicant shall implement the following measures to minimise the waste and fugitive air emission;	
		a) Closed metering and automated filling system of active ingredients shall be implemented to minimise waste generation	Being complied with
		b) Use of closed feed system to reactor shall be followed	The condition is not applicable now as the reactors will be installed in Phase II only
		c) Reuse of by-products from the process as rawmaterials or raw material substitute in other process shall be followed	Reuse scheme of wash water implemented on trial basis
		d) Venting system of reactor shall be passed through vapour recovery system / condenser and receiver system. The recovered solvent shall be used back in the system	The condition is not applicable now as the reactors will be installed in Phase II only
<b>C</b>	<b>General</b>		

	1	The industry vide letter dated 28.03.2019 submitted copy of proceedings of Eco Sensitive Zone Committee, MoEF & CC wherein the committee in its meeting held on 28.02.2019 has recommended for issue of final notification by fixing the distance from Daroji Bear Sanctuary between 1 KM to 4.7 KM as Eco Sensitive Zone and the project does not fall in the ESZ as the distance is 9.5 KM from Daroji Bear Sanctuary. Therefore industry shall submit copy of the final notification of Daroji Eco Sensitive Zone within 3 months failing which, the Consent for Operation will be withdrawn without further correspondence	On 27th Sept 2019, the final notification was published in Gazette and we submitted the copy to the Board on 14th Oct 2019.
	2	The applicant shall immediately apply for authorisation under the Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016	Complied. We have received HWA from the board vide HWA No.316905 dated 29/01/20
	3	The applicant shall provide dedicated storage area with compartment system to store the Hazardous waste in scientific manner. The acid / alkali proof, non skid flooring shall be provided inside the storage area with impervious collection system for collecting spillages, if any. Guidelines for storage of incinerable Hazardous waste, treatment & disposal facilities and captive HW incinerators shall be followed while designing the storage area	As stipulated, provided a designated storage area with compartment system for storing Hazardous waste. The flooring is made with impervious tremix.
	4	The applicant shall obtain registration under plastic waste (Management and Handling) Rules	Not Applicable for Waste Generators
	5	The applicant shall dispose the non hazardous plastic waste only to the authorised units registered with the KSPCB under Plastic Waste (Management & Handling) Rule, 2016	Noted
	6	The applicant shall segregate the solid waste from Hazardous waste / Municipal Solid waste and store it properly till treatment / disposal without causing pollution to environment	Being complied with
	7	The residue collected at bag filter shall be scientifically collected, stored and reused without causing nuisance to minimise the fugitive emission during handling	The ventilating bag filter provided for Silos, will discharge the dust back into the silos.
	8	The analysis of effluents and emissions may be carried out in KSPCB approved laboratory / laboratories approved under EP act	Being complied with. As stipulated, the analysis is being carried out by MoEF accredited Laboratory - M/s Care Labs
	9	The applicant shall set up Environmental cell comprising of qualified and competent personnel for complying with conditions specified	Environment cell is set up with qualified personnel
	10	The applicant shall make an application for consent at least 30 days before expiry of this consent	Noted
	11	The applicant shall not carry out any modification / expansion / diversification of product without prior CFE from the Board	Noted

**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

*GD*



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.

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- (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.

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
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)  
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