

J-11011/195/2015-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA Division)

Indira Paryavaran Bhavan
Jor bagh Road, Delhi - 3
Dated: 13th September, 2017

To,

M/s Balaji Amines Ltd.,
Plot no. E-7 & E-8, MIDC
Chincholi, Taluka Mohol,
Solapur- 413255 (Maharashtra)

Sub: Expansion of Specialty Chemicals manufacturing unit in District Solapur (Maharashtra) by M/s Balaji Amines Ltd - Environmental Clearance - reg.

Ref.: Your online proposal no. IA/MH/IND2/29191/2015 dated 6th June, 2017

Sir,

This has reference to your online proposal no. IA/MH/IND2/29191/2015 dated 6th June, 2017 along with project documents namely, EIA/EMP Report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for grant of environmental clearance to the expansion of 'Specialty Chemicals manufacturing unit' from 12648 to 23807.03 MTPM in an area of 16 ha at plot No. E-7 & E-8, MIDC Chincholi, Taluka Mohol, District Solapur (Maharashtra) by M/s Balaji Amines Ltd.

3. The details of products are reported to be as under:-

S. No.	Product	Existing Products Capacity (MT / Month)	Proposed Products Capacity MT / Month	Total after expansion (MT/ Month)
1	Mono Methyl Amine (MMA)	928.8	--	928.8
2	Di Methyl Amine (DMA)	2066.4	--	2066.4
3	Tri Methyl Amine (TMA)	144	432	576
4	Di Methyl Amine Hydrochloride (DMA HCl)	1092	1092	2184
5	N-Methyl-2-Pyrrolidone (NMP)	1005	1008	2013
6	2-Pyrrolidone (2P)	1005	--	1005
7	N-Ethyl Pyrrolidone (NEP)	1005	--	1005
8	Di Methyl Formide (DMF)	2160	840	3000
9	Gamma Butyrolactone (GBA)	1005	1008	2013
10	Methyl Di Ethanol amine (MDEA)	1035	--	1035
11	Poly Vinyl Pyrrolidone/ PVP Iodine (PVP/PVP Iodine)	201	--	201
12	Mono Ethyl Amine (MEA)	100.8	--	100.8
13	Di Ethyl Amine (DEA)	298.8	--	298.8
14	Tri Ethyl Amine (TEA)	601.2	--	601.2

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15	Morpholine (MOR)	--	1080	1080
16	Aceto Nitrile (ACN)	--	1440	1440
17	Di Methyl Carbonate (DMC)	--	1660	1660
18	Budesonide (BD)	--	1.5	1.5
19	Betamethasone & Its Salts (BM)	--	1.5	1.5
20	Ciclesonide (CN)	--	1.5	1.5
21	Flumethasone &Its Salts (FM)	--	0.525	0.525
22	Fluticasone & Its Salts (FC)	--	0.5	0.5
23	Beclamethasone Dipropionate (BMD)	--	0.5	0.5
24	16-Alpha Hydroxy Prednesolone (16-AHP)	--	0.5	0.5
25	Mometasone Furuote (MF)	--	0.5	0.5
26	Propylene Glycol (PG)	--	1656	1656
27	Mono IsoPropyl Amine (MIPA)	--	504	504
28	Propylene Carbonate (PC)	--	432	432
Total			12648	11159.03
By Products				
1	Higher Amines	111.9	117.12	229.02
2	Methyl Tri Ethanol Amine	57.6	--	57.6
3	Calcium Hydroxide	262.8		262.8
4	Tetra Hydro Furan	--	86.4	86.4
5	Hydrogen	--	51.84	51.84
6	Spent Caustic Solution (20%)	--	576	576
7	Sulphur	--	5.76	5.76

4. Total project area is 16 ha out of which greenbelt will be developed in an area of 5.28 Ha. Total estimated cost of proposal is Rs 49 crores.

5. There are no National Parks, Biosphere Reserves, Tiger/ Elephant Reserves etc., within the 10 km distance of the project site. Great Indian Bustard Sanctuary is located at a distance of 1.8 Km from project site and Sina River is flowing at a distance of 6.4 km from project site.

6. Bag filter will be provided to additional 1 Coal fired boilers (20 TPH) and 2 Thermal fluid heaters with capacity 6 Lakh Kcal/Hr and 20 Lakh Kcal/Hr respectively to control particulate emissions.

Total fresh water requirement will be increased from 643 cum/day to 1470 cum/day which will be met from MIDC. Industrial wastewater will be segregated into High TDS/COD and Low TDS/COD effluent streams. High TDS/COD effluent stream will be treated through multiple effect evaporator (MEE) and RO. Low TDS/COD effluent stream will be treated in effluent treatment plant (ETP) comprising primary, secondary and tertiary treatment. No effluent shall be discharged outside the premises and 'Zero' effluent discharge concept shall be adopted.

Spent carbon, Spent catalyst, Filter and Filter material, ETP sludge and distillation residue will be sent to common disposal site. The project proponent has proposed to incinerate the distillate residue which is suggested to use the common incinerator.

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7. ToR was issued on 13th October, 2015 with the exemption from public hearing as per the provisions contained in Section 7 (i), III Stage (3), Para (i) (b) of EIA Notification 2006 as project is located in the notified industrial area.

8. Synthetic Organic Chemicals Industry located inside the notified industrial area/estate is listed under category 'B' of item 5(f) to the schedule to the EIA Notification, 2006. However, due to applicability of the general condition i.e. location of project fall within 1 km of the boundary of 'Great India Bustard Sanctuary', the proposal was considered as category 'A' and appraised at Central level.

9. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 12th, 17th, 22nd and 24th meeting held during 23-24 August, 2016, 26-29 December, 2016 17-18 April, 2017 and 14-16th June, 2017. The project proponent and their accredited consultant M/s Equinox Environments (India) Pvt Ltd, presented EIA / EMP report as per the ToR. The 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.

10. 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 to the project '**Expansion of Specialty Chemicals manufacturing unit**' by M/s Balaji Amines Ltd at plot No. E-7 & E-8, MIDC Chincoli, Taluka Mohol, District Solapur (Maharashtra) under the provisions of the EIA Notification, 2006, subject to the compliance of the terms and conditions as under:

- (a) The environmental clearance is subject to obtaining prior clearance from forestry and wildlife angle including clearance from the Standing Committee of the National Board for Wildlife as applicable. Grant of environmental clearance does not necessarily implies that Forestry and Wildlife Clearance shall be granted to the project and that their proposals for forestry and 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 already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. The effluent discharge, if any, shall conform to the standards prescribed under the Environment (Protection) Rules, 1986.
- (d) 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.



- (e) 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.
- (f) 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.
- (g) Ambient air quality data shall be collected as per NAAQS standards notified by the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009. The levels of PM₁₀, PM_{2.5}, SO₂, NO_x, VOC and CO shall be monitored in the ambient air and emissions from the stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the State Pollution Control Board (MPCB).
- (h) Continuous online (24 x7) monitoring system for emissions and effluent generation shall be installed for flow/discharge measurement and the pollutants concentration within the plant. Data shall be uploaded on company's website and provided to the respective Regional Office of MoEF&CC, CPCB and SPCB.
- (i) Total fresh water requirement shall not exceed 1470 cum/day, which will be sourced from MIDC. Prior permission for the same shall be obtained from the concerned regulatory authority.
- (j) The green belt in 33% of the total project area i.e. 5.28 Ha shall be developed with at least 10 m wide along the project 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.
- (k) 1000 trees per year shall be planted during 5 years in nearby villages in consultation with the state forest department and the locals. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance report.
- (l) At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) and used for installation of RO plant for drinking water supply and solar panels in nearby villages. Implementation of such program shall be ensured accordingly in a time bound manner.
- (m) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (n) 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.
- (o) The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.

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- 10.1** 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 and Forests. In case of deviation 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 station 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 16th 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.
 - (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 and

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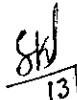
Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila 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, 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 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.
- (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.

11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not reported to be satisfactory.

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

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, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


13/9/2017
(S. K. Srivastava)
Scientist E

Copy to:-

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, **Mumbai** - 400 032 (Maharashtra).

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


13/9/17
(S. K. Srivastava)
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