

State Level Environment Impact Assessment Authority, Rajasthan

4, Institutional Area, Jhalana Doongri, Jaipur-302004

Phone: 0141-2705633, 2711329 Ext. 361

File No. F1 (4)/SEIAA/SEAC-Raj/Sectt/Project/Cat 5f B2 (119)14-15

Jaipur, Dated: 31 JUL 2014

To,
M/s. Amzole India Pvt. Ltd.
41, Udhog Vihar,
RIICO Industrial Area, Sukher,
Udaipur-313004.

Sub: EC for Forward Integration of existing Glyoxal Manufacturing facility to drug intermediate Glyoxylic Acid - 50 % Category 5 (f)

This has reference to your application dated 28.04.14 environmental clearance for the above project under Environment Impact Assessment Notification 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the Environment Impact Assessment Notification 2006 on the basis of the mandatory documents enclosed with the application viz. the questionnaire, Environment Management Plan and additional clarifications furnished in response to the observation of the State Level Expert Appraisal Committee Rajasthan, in its meeting held on 26-27.06.14

2. Brief details of the Project:

1.	Category / Item no.(in Schedule):	5f B2						
2.	Location of Project	41, Udyog vihar, RIICO Industrial Area Sukher, Udaipur						
3.	Project Details	S. No.	Product	Existing Qty.	EC Granted Qty.	Total Qty (Existing +EC granted)	Amend in EC for product mix	Total Qty.
		1	Glyoxal-40%	20.00 TPD	-	20.00 TPD	-	20.00 TPD
		2A	Glyoxylic acid 50%	-	7.50 TPD	07.50 TPD	7.50 TPD	7.50 TPD
		B	Imidazole & IT derivatives	-	-	-		
		C	Tinidazole	-	-	-		
		D	Metronidazole	-	-	-		
		E	Metronidazole Benzoate	-	-	-		
		F	Ornidazole	-	-	-		
		G	Ofloxacin	-	-	-		
		3	Acetic ACID	40.00 TPD	-	40.00 TPD	-	40.00 TPD
		Total		60.00 TPD	7.50 TPD	67.50 TPD	7.50 TPD	67.50 TPD

4.	Raw Materials	S. No.	Product	Nature	Storage	
		1.	ACETALDEHYDE- 99%	LIQUID	TANK	
		2.	NITRIC ACID- 61-62%	LIQUID	TANK	
		3.	CAUSTIC LYE – 47%	LIQUID	TANK	
		4.	HYDROCHLORIC ACID- 33%	LIQUID	TANK	
		5.	ETHYL THIO ETHANOL	LIQUID	DRUMS	
		6.	SULPHURIC ACID	LIQUID	TANK	
		7.	N- METHYL PIPERAZINE	LIQUID	DRUMS	
		8.	MONO CHLORO BENZENE	LIQUID	DRUMS	
		9.	LIQUOR AMMONIA- 24%	LIQUID	TANK	
		10.	HYDROGEN PER OXIDE	LIQUID	CARBOUYS	
		11.	ETHYLENE OXIDE	LIQUID	CYLINDER	
		12.	ACETIC ACID	LIQUID	CARBOUYS	
		13.	FORMIC ACID	LIQUID	DRUMS	
		14.	BETA PICOLENE	LIQUID	DRUMS	
		15.	METHANOL	LIQUID	DRUMS	
		16.	SODIUM BICARBONATE	SOLID	BAGS	
		17.	EPICHLOROHYDRIN	LIQUID	DRUMS	
		18.	O-ACID	SOLID	FIBRE DRUMS	
5.	By Product	S .No.	Product	Existing Quantity/year as per consent	Additional Quantity as per EC	Total Quantity
		1.	OXALIC ACID	-	1.28 TON/DAY	1.28 TON/DAY
		2.	SODIUM NITRATE	-	175.00 KG/DAY	0.175 KG/DAY
		3.	AMMONIUM SUPPHATE SOL.	-	-	47 TON/DAY
6.	Project Cost:	S.No.	Particulars	Cost		
		1	Cost of additional plant	134.00 Lacs		
		2	Erecting and installation	40.00 Lacs		
		3	Misc.expencess	26.00 lacs		
		Total	200 Lacs			
7.	Water Requirement & Source	Water Consumption and balance:-				
		S. No	Particulars	Present (KLD)	Proposed KLD)	
		1.	Boiler and cooling	78 (including 3 KLD for gardening)	75	
		2.	Domestic	03	03	
		3.	Gardening	-	03	
		4.	Industrial process	48	43	
		Total water consumption		129	124	
		Waste water Generation: -				
		S. No.	Particulars	Present (KLD)	Proposed (KLD)	
		1.	Boiler and Cooling	Nil	Nil	
		2.	Domestic	1.5	1.5	
		3.	Industrial process	15.0	8.25	
		Total		16.5	9.75	
		8.	Fuel & Energy:-	Present power load is 300 KVA. No further enhancement is required. No additional Coal shall be required other than 3 MT per day granted in existing EC for expanction. Diesel for stand by Diesel Generating set.		
9.	Environment Management Plan	Capiral cost -Rs.25 lacs Recurring cost- 5 Lacs/ Year				
10.	CSR Activates	2% of net profit or Rs.10 Lacs/ Annum , whichever is more				

11	Budgetary breakup for labour	Rs. 10 Lacs / year
12.	STP	STP capacity of 100 KLD
13.	Green Belt/ Plantation	33%

3. The SEAC Rajasthan after due considerations of the relevant documents submitted by the project proponent and additional clarifications/documents furnished to it have recommended for Environmental Clearance with certain stipulations. The SEIAA Rajasthan after considering the proposal and recommendations of the SEAC Rajasthan hereby accord Environmental Clearance to the project as per the provisions of Environmental Impact Assessment Notification 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

- i The production capacity of the industry shall be limited to production of following products and by products-

Products:-

S. No.	Product	Existing Qty.	EC Granted Qty.	Total Qty (Existing +EC granted)	Amend in EC for product mix	Total Qty.
1	Glyoxal-40%	20.00 TPD	-	20.00 TPD	-	20.00 TPD
2A	Glyoxalic acid 50%	-	7.50 TPD	07.50 TPD	7.50 TPD	7.50 TPD
B	Imidazole & IT derivatives	-	-	-		
C	Tinidazole	-	-	-		
D	Metronidazole	-	-	-		
E	Metronidazole Benzoate	-	-	-		
F	Ornidazole	-	-	-		
G	Ofloxacin	-	-	-		
3	Acetic ACID	40.00 TPD	-	40.00 TPD	-	40.00 TPD
Total		60.00 TPD	7.50 TPD	67.50 TPD	7.50 TPD	67.50 TPD

By Products-

S o.	Product	Existing Quantity/year as per consent	Additional Quantity as per EC	Total Quantity
1.	OXALIC ACID	-	1.28 TON/DAY	1.28 TON/DAY
2.	SODIUM NITRATE	-	175.00 KG/DAY	0.175 KG/DAY
3.	AMMONIUM SUPPHATE SOL.	-	-	47 TON/DAY

- ii. For the production of above following raw material shall be used as proposed:-

S. No.	Product	Nature	Storage
1.	ACETALDEHYDE- 99%	LIQUID	TANK
2.	NITRIC ACID- 61-62%	LIQUID	TANK
3.	CAUSTIC LYE – 47%	LIQUID	TANK
4.	HYDROCHLORIC ACID- 33%	LIQUID	TANK
5.	ETHYL THIO ETHANOL	LIQUID	DRUMS
6.	SULPHURIC ACID	LIQUID	TANK
7.	N- METHYL PIPERAZINE	LIQUID	DRUMS
8.	MONO CHLORO BENZENE	LIQUID	DRUMS
9.	LIQUOR AMMONIA- 24%	LIQUID	TANK
10.	HYDROGEN PER OXIDE	LIQUID	CARBOUYS
11.	ETHYLENE OXIDE	LIQUID	CYLINDER
12.	ACETIC ACID	LIQUID	CARBOUYS
13.	FORMIC ACID	LIQUID	DRUMS
14.	BETA PICOLENE	LIQUID	DRUMS
15.	METHANOL	LIQUID	DRUMS
16.	SODIUM BICARBONATE	SOLID	BAGS
17.	EPICHLOROHYDRIN	LIQUID	DRUMS
18.	O-ACID	SOLID	FIBRE DRUMS

- iii. The PP shall ensure the implementation of the commitments in respect of addressing Environmental and Social issues.
- iv. The PP shall ensure providing 33% area of the total plant area under green cover.
- v. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry / unit / project proponent. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

- vi As committed, the PP shall earmark and spend an amount of Rs. 25 lacs towards capital cost and Rs. 5 lacs as annual recurring cost on various environmental protection measures and implementation of various activities under Environmental Management Plan. As proposed, the unit should keep Zero Discharge Status in the premises.
- vii The PP shall earmark and spend an amount of Rs 10 Lacs /year or 2% of net profit, whichever is more as CSR as per the proposal submitted and the detailed action plan be submitted to RSPCB at the time seeking CTE. The expenditure on these activities shall be reflected in the books of account when presented for auditing of accounts. The proposal should contain provision for toilets for girls in nearby schools. The proposal should contain provision for monthly medical camps, distribution of medicines and improvement in educational facilities in the nearby schools. Detailed action plan of CSR activities shall be submitted by the PP to RSPCB at the time of applying for "Consent to Establish".
- viii The P.P. shall ensure taking necessary steps on urgent basis to improve the living conditions of the labour at site and provide health facility, sanitation facility, fuel for cooking, along with safe drinking water, medical camps, and toilets for women, crèche for infants. As proposed the PP shall earmark and spend an amount of Rs. 10 Lacs for labour welfare.
- ix Total water demand will be 124 KLD which will be met through RIICO, as proposed.
- x For withdrawing ground water from bore wells, necessary permission from CGWA should be taken.
- xi The PP shall achieve the stack emission standards and ambient air standards as notified under E. P. Rules 86 and its subsequent amendments.
- xii The height of the stack for disbursement of the process emissions shall not be less than 30.00 Mtrs. from ground level.
- xiii The PP shall operate its unit with prior Consent to Establish and Consent to Operate under the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.
- xiv The particulate matter and gaseous emissions (SO_x, NO_x, CO, CO₂, etc) from various processes/units/storages shall conform to the standards prescribed by the State Pollution Control Board /Central Pollution Control Board or under the Environment (Protection) Rules' 86 from time to time.
- xv At no time, the emissions shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the unit shall immediately put off operation and shall not restart until the control measures are rectified to achieve the desired efficiency.
- xvi Ambient air quality monitoring stations shall be set up in the down wind direction as well as where maximum ground level concentration of PM₁₀ & PM_{2.5}, SO_x, NO_x, CO, CO₂, and F (Total) are anticipated in consultation with Rajasthan State Pollution Control Board.
- xvii The project proponent shall carry out regular monitoring of air emissions (at source, work environment and ambient air) and assessment of performance of Air pollution control arrangements.
- xviii Portholes and sampling facilities shall be provided for the stacks emissions monitoring as per the CPCB guidelines. Stack emissions shall be monitored in consultation with RPCB.
- xix The PP shall draw the Safety, Health & Environment (SHE) Plan and submit to RPCB.
- xx Data on ambient air quality and stack emissions shall be submitted to RPCB, once in six months carried out by MOEF/NABL/CPCB/ Govt. approved lab.
- xxi The PP shall provide separate drainage and outlets with the precaution that the storm water shall not come into contact with waste sludge.
- xxii The PP shall not generate any hazardous waste, as proposed.
- xxiii Handling, manufacture, storage and transportation of hazardous chemicals shall be in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (amended till date).

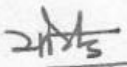
- xxiv Adequate measures for the control of noise shall be taken so as to keep the noise levels below 85 dB (A) in the work environment. Persons working near the machines shall be provided with well-designed ear muffs/plugs and other personnel protective equipments.
- xxv Suitable alarm system and standard procedure for transmitting the information on the occurrence of an accident to the proper focal point shall be established.
- xxvi Efforts shall be made to increase green belt all around the premises. Native plant species shall be selected for this purpose in consultation with the local Forest Department. A green belt development plan be prepared and implemented so as to cover at least 35% area of the plot size.
- xxvii A qualified person in the field of environment or separate Environmental Management Cell to be established to implement and carry out various functions is set up under the control of a Senior Executive who will report directly to the head of the project.
- xxviii The PP will ensure that no employee or worker remains on duty within the plant premises for more than 8 hours per day in one stretch in normal conditions. However based on plant operation and maintenance tasks, overtime can be provided as per the Rajasthan Factories rules for personnel deployed for more than 8 hours.
- xxix The funds earmarked for the environmental protection measures shall be kept in separate account and shall not be diverted for other purposes and year wise expenditure shall be reported to the Rajasthan State Pollution Control Board under the rules prescribed for environmental audit. Periodical medical checkup of the workers shall be done in six months and records maintained and effects of fluorine on human health need to be taken into special consideration.
- The P.P. shall ensure taking necessary steps on urgent basis to improve the living conditions of the labour at site. The proposed Budgetary provision of Rs 10 lacs per year shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as health facility, sanitation facility, fuel for cooking, along with safe drinking water, medical camps, and toilets for women, crèche for infants. The housing may be in the form of temporary structures to be removed after the completion of the project. Details of provisions should be submitted to RPCB at the time of obtaining CTE.
- xxx The PP shall ensure taking necessary steps on urgent basis to improve the living conditions of the construction labour at site.
- xxxi The PP shall ensure that, the EC letter as well as the status of compliance of EC conditions and the monitoring data are placed on company's website and displayed at the project site.
- xxxii The SEIAA, Rajasthan reserve the right to add new conditions, modify/ annual any condition and/or to revoke the clearance if implementation of any of the aforesaid condition/other stipulations imposed by competent authorities is not satisfactory. Six monthly compliance status reports on project along with implementation of environmental measures shall be submitted to MoEF, Regional Office, Lucknow and RPCB and SEIAA, Raj.

GENERAL CONDITIONS

1. The environmental safeguards contained in Form 1-A shall be implemented in letter and spirit.
2. Six monthly compliance reports shall be submitted to Ministry of Environment and Forest, Govt. of India, Regional Office, Ministry of Environment & Forests, RO(CZ), Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow, SEIAA, Rajasthan and Rajasthan State Pollution Control Board.
3. Officials of the RSPCB, who would be monitoring the implementation of environmental safeguards, shall be given full cooperation facilities and documents/data by the PP during their inspection. A complete set of all the documents submitted to SEIAA, Rajasthan shall be forwarded to the RSPCB.
4. In case of any change(s) in the scope of the project, the PP requires a fresh appraisal by SEIAA/SEAC, Rajasthan.
5. The SEIAA/SEAC, Rajasthan reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environmental

clearance under the provisions of the Environment (Protection) Act-1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

6. All the other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (protection) Act, 1972 etc. shall be obtained, as may be applicable, by PP from the competent authority.
7. The PP shall ensure advertising in at least two local news papers widely circulated in the region, one of which shall be in vernacular language that, the project has been accorded environmental clearance and copies of the clearance letters are available with SEIAA, Rajasthan and the Rajasthan State Pollution Control Board and may also be seen on the website of the Board at www.rpcb.nic.in. The advertisement shall be made within 7(seven) days from the date of issue of the environmental clearance and a copy shall also be forwarded to the SEIAA, Rajasthan and RSPCB.
8. These stipulations would also be enforced amongst the others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification'06.
9. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the proponent, if it was found that construction of the project has been started without obtaining environmental clearance.
10. Environment clearance is subject to final order of the Honb'le Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition(Civil) No. 460 of the year 2004 as may be applicable to this project.


31/7/2014
(Yogendra Kumar Dak)
Member Secretary,
SEIAA Rajasthan

Copy to following for information and necessary action:

1. Secretary, Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi - 110003.
2. Addl. Chief Secretary, Environment Department, Rajasthan, Jaipur.
3. Smt. Alka Kala, Chairman, SEIAA, Rajasthan, 69-A, Bajaj Nagar Enclave, Jaipur
4. Shri Moti Lal Daima, Member, SEIAA, Rajasthan, 48/9, Moti Path, Mansarovar, Jaipur.
5. Member Secretary, Rajasthan State Pollution Control Board, Jaipur for information & necessary action and to display this sanction on the website of the Rajasthan Pollution Control Board, Jaipur.
6. Secretary, SEAC Rajasthan.
7. The CCF, Regional Office, Ministry of Environment & Forests, RO(CZ), Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow-226 020.
8. Environment Management Plan- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
9. Nodal Officer (Departmental Website), Department of Environment, Government of Rajasthan, Jaipur with the request to upload the copy of this environmental clearance on the website.

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M.S. SEIAA (Rajasthan)