STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date:March 12, 2018

To,
M/s. Paramount Chempro
at Plot No. C-6, MIDC Industrial Area, Butibori, Nagpur

Subject: Environment Clearance for Proposed Formaldehyde Production Unit

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 141 th SEAC -1 Meeting st meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 120th meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category 5 (f) as per EIA Notification 2006.

Brief Information of the project submitted by you is as below :-

1.Name of Project	Proposed Formaldehyde Production Unit at Plot No. C-6, MIDC Industrial Area, Butibori, Nagpur
2.Type of institution	Private
3.Name of Project Proponent	M/s. Paramount Chempro
4.Name of Consultant	Anacon Laboratories Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No. C-6, MIDC Industrial Area, Butibori, Nagpur
9.Taluka	Hingna
10.Village	Butibori
11.Whether in Corporation / Municipal / other area	MIDC
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 896.11
13.Note on the initiated work (If applicable)	Construction work not started yet
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable

18 (a).Proposed Built-up Area (FSI & Non-FSI)	**FSI area (sq. m.):** Not applicable
	Non FSI area (sq. m.): Not applicable
	Total BUA area (sq. m.): Not applicable
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	74100000

22.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Formaldehyde	0	2000	2000

23.Total Water Requirement

Dry season:	**Source of water**	MIDC Butibori
	Fresh water (CMD):	MIDC Butibori
	Recycled water - Flushing (CMD):	RO Reject
	Recycled water - Gardening (CMD):	cooling tower blow down
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	MIDC Butibori & Recycling
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	MIDC Butibori
	Fresh water (CMD):	185
	Recycled water - Flushing (CMD):	165
	Recycled water - Gardening (CMD):	3.8
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	350
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	4	4	0	0.8	0.8	0	3.2	3.2
Industrial Process	0	56	56	0	56	56	0	0	0
Cooling tower & thermopack	0	144	144	0	115.2	115.2	0	28.8	28.8
Gardening	0	3.8	3.8	0	3.8	3.8	0	0	0

25.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 – 12 m during pre-monsoon & < 7 m (bgl) during post monsoon
	Size and no of RWH tank(s) and Quantity:	4 m x 4 m x 3 m (2 Nos.)
	Location of the RWH tank(s):	Within plant west side
	Quantity of recharge pits:	76.95 KLD
	Size of recharge pits :	4m x 4m x 3m
	Budgetary allocation (Capital cost) :	Not applicable
	Budgetary allocation (O & M cost) :	Not Applicable
	Details of UGT tanks if any :	Not Applicable
26.Storm water drainage	**Natural water drainage pattern:**	East to West
	Quantity of storm water:	4418 m3 per annum
	Size of SWD:	300 mm
27.Sewage and Waste water	**Sewage generation in KLD:**	3.2
	STP technology:	Soak pit
	Capacity of STP (CMD):	Not applicable
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	Not applicable
	Budgetary allocation (O & M cost):	Not applicable

28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction wastes, domestic wastes, gardening waste & used oil.
	Disposal of the construction waste debris:	The construction wastes will be utilized for leveling and road construction in plant premises. Domestic & gardening waste will be used for composting. Used oil generated from construction machinery will be collected, stored separately and sold to authorized recyclers.
Waste generation in the operation Phase:	**Dry waste:**	Gardening waste 4.2 kg/day
	Wet waste:	Domestic waste 6.0 kg/day
	Hazardous waste:	Discarded plastic containers/barrels/liners 2.0 kg/day
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Mode of Disposal of waste:	**Dry waste:**	Composting
	Wet waste:	Composting
	Hazardous waste:	Sold to authorized parties
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	**Location(s):**	4050 sq. m
	Area for the storage of waste & other material:	132 sq.m
	Area for machinery:	198 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	74100000
	O & M cost:	NA

29.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicale	Not applicale	Not applicale	Not applicale	No industrial effluent will be generated from the process

Amount of effluent generation (CMD):	4.8
Capacity of the ETP:	5 CMD
Amount of treated effluent recycled :	0
Amount of water send to the CETP:	0
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Portable
Disposal of the ETP sludge	evaporation

30.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Discarded plastic containers/barrels/liners	33.1	kg/day	0	2	2	Sold to authorized parties

31.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Boiler house	HSD 25 Liter/day	1	11	NA	NA
2	DG Set	HSD as per requirement	1	10	NA	NA

32.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	0	HSD 25 Liter/day	HSD 25 Liter/day
33.Source of Fuel		Locally purchased		
34.Mode of Transportation of fuel to site		Tankers		

35.Energy

Power requirement:	**Source of power supply :**	MSEDC
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	250 HP
	During Operation phase (Demand load):	NA
	Transformer:	Not applicable
	DG set as Power back-up during operation phase:	250 HP
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

Energy saving by non-conventional method:

Not applicable

36.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	NA	0

37.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	It is a green field project based on chemical reaction for the synthesis of formaldehyde. No emission envisaged through the manufacturing process, hence no stack will be required.	Nil
Domestic Effluent-	Domestic effluent will be treated through septic tank/soak pit system. However provision will be made to install portable sewage treatment plant (STP) to treat the domestic waste generated from the plant. The treated domestic waste will be use for plantation.	Septic Tank/Soak Pit
Industrial Effluent	ETP	5 KLD
Noise	• Sources of high noise level such as D.G. set etc. will be provided adequate sound enclosures. • The industry will develop greenbelt in 1336 m2 (33%) within the industrial premises for the abatement of noise pollution.	Ear protecting devices Earplugs/Ear muffs to the workers/employees will be provided as and when required.
Solid Waste	Composting & disposal to authorized vendors	TSDF Site. HW storage with RCC flooring and asbestos roof covering will be provided

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

38.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Wastewater	ETP (Pretreatment)	6.0	0.60
2	Water	Rain Water Harvesting	0.60	0.06
3	Greenbelt	Landscaping/plantation	2.0	0.2
4	Solid Waste	Solid Waste Management	1.0	0.1
5	Health & Safety	Health Care & Safety	1.05	0.15
6	EMP Monitoring	Environmental Monitoring plan	7.50	0.75

39.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation

Methanol	6 tanks	underground storage	360	360	890	Open Market	Roadways
Formaldehyde	4 tanks	Overhead	400	400	24000	Finished product	roadways

40.Any Other Information

No Information Available

	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	5 (f)
	Court cases pending if any	NO
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	20-01-2016

3. The proposal has been considered by SEIAA in its 120th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

Specific Conditions:

I	PP to provide separate entry and exit gates and submit revised layout plan.
II	PP informed that they have reduced water consumption from 204 KLD to 165 KLD.
III	PP to reduce garden water requirement from 8 KLD to 1 KLD.
IV	Some of the reactions are highly exothermic and generates heat. PP to identify those areas and explore possibility to use this waste heat for other purposes. PP also to carry out heat integration / pinch analysis to minimize energy consumption of chemical processes by calculating thermodynamically feasible energy targets and achieving them by optimizing heat recovery system, energy supply methods and process operating conditions.

General Conditions:

I	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
II	73 TPH boiler should have stack height of 68m and flue gases shall be passed through an ESP of 99.9% efficiency before being led into the 68 m stack.
III	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
IV	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
V	Proper Housekeeping programmers shall be implemented.
VI	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
VII	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VIII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
IX	Arrangement shall be made that effluent and storm water does not get mixed.
X	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
XI	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.

XII	The overall noise levels in and around the plant are 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 confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
XIII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
XIV	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
XV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
XVI	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVII	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
XVIII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
XIX	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
XXI	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in
XXII	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
XXIII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
XXIV	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their 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 SPCB. The criteria pollutant levels namely; SPM, RSPM. SO2, NOx (ambient levels as well as stack emissions) or critical sectorai parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
XXV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC 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 the SPCB.
XXVI	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune),New Administrative Building, 1stFloor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Shri. Anil Diggikar (Member Secretary SEIAA)

Copy to:

1. SECRETARY MOEF & CC

2. IA- DIVISION MOEF & CC

3. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI

4. REGIONAL OFFICE MOEF & CC NAGPUR

5. MUNICIPAL COMMISSIONER NAGPUR

6. REGIONAL OFFICE MPCB NAGPUR

7. REGIONAL OFFICE MIDC NAGPUR

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