



File No: J-11011/961/2008-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 15/11/2023



To,

Shri. Ajay Kumar Gupta
M/s BHARAT RASAYAN LIMITED BRL
1501, Vikram Tower, Rajendra Place, New Delhi , Dahej, NEW DELHI, DELHI, Nr. Rajendra Place -
Metro Station, 110008
brldahej@bharatgroup.co.in

Subject: **Proposed Expansion of the Production Capacity of Existing Unit for Manufacturing of Agrochemicals & their intermediates-with production capacity from 16900 MTA to 24990 MTA located at Plot No. 42/4, Amod Road, Dahej-I GIDC Industrial Estate, Dahej District - Bharuch, Gujarat by M/s. Bharat Rasayan Limited (Unit-II) - Consideration of Environmental Clearance-Reg.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/GJ/IND3/422273/2023 dated for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A2002GJ5176327N
(ii) File No.	J-11011/961/2008-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(b) Pesticides industry and pesticide specific intermediates (excluding formulations)
(vi) Sector	Industrial Projects - 3
(vii) Name of Project	M/s. Bharat Rasayan Limited (Unit-2)
(viii) Name of Company/Organization	BHARAT RASAYAN LIMITED BRL
(ix) Location of Project (District, State)	BHARUCH, GUJARAT
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

1. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the MoEF&CC for an appraisal by the Expert Appraisal Committee (EAC) Industry-III under the provision of EIA notification 2006 and its subsequent amendments.
2. The above-mentioned proposal has been considered by Expert Appraisal Committee (EAC) Industry-III in 63rd EAC meeting held on 31st August, 2023. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above or through the following web link https://parivesh.nic.in/utildoc/9099618_1694189010805.pdf.
3. The brief about configuration of products and byproducts as submitted by the Project Proponent in Form-1 (Part A, B and C)/ EIA & EMP Reports / presented during Expert Appraisal Committee (EAC) Industry-III are annexed to this EC as Annexure (1).
4. The Expert Appraisal Committee (EAC) Industry-III in 63rd EAC meeting held on 31st August, 2023, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to compliance of Specific and Standard EC conditions as given in this letter.
5. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the Expert Appraisal Committee hereby accords Environment Clearance to the instant proposal of **M/s. Bharat Rasayan Limited (Unit-II)** under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)
6. The Ministry reserves the right to stipulate additional conditions, if found necessary.
7. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
8. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
9. Validity of EC is upto Ten years from the date of issuance of this EC. Validity of EC becomes perpetual subject to the start of production operations by the project or activity on or before the In case the project proponent fails to start the production operations within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006 and its amendment.
10. General Instructions:
 - (a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
 - (b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
 - (c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
 - (d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
 - (e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 - (f) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data /

information/monitoring reports.

(g) Any appeal against this EC 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.

11. This issues with the approval of the Competent Authority

Copy To

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010 (Gujarat)
2. The Deputy Director General of Forests (C) Ministry of Env., Forest and Climate Change, Integrated Regional Office, Gandhi Nagar, A-Wing – 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar - 382010
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043 (Gujarat)
5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
6. The District Collector, District **Bharuch**, Gujarat.
7. Guard File/Monitoring File/PARIVESH

Annexure 1

Specific EC Conditions for (Pesticides Industry And Pesticide Specific Intermediates (Excluding Formulations))

1. Specific Conditions

S. No	EC Conditions
1.1	1. The PP shall maintain/develop greenbelt over an area of at least 34792.93 m² (33%) within one year of grant of EC. The saplings (1650 number of trees) selected for the plantation should be of sufficient height, preferably 6-ft. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year. 2. A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. PP shall engage Head EHS- Head (R&D) for ETP – Sr. safety and fire officer- manager process safety – Manager Environment- Assistant Manager Environment- Shift Environment Engineer. In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year. 3. 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, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP is 16 Crore (Capital cost) and

S. No	EC Conditions
	27.20 Crore per annum (Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year. 4. The Total water requirement shall not exceed 3446 m³/day of which fresh water requirement of 1787 m³/day shall be met from GIDC supply. The PP should ensure that water supply should not be above the permissible limit as mentioned in the letter and fresh water shall be withdrawn only after obtaining valid agreement from Concerned Authority. The PP should submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st July of every year for the activities carried out during the previous year. 5. Industrial Effluent of 1501 m³/day shall be treated through Effluent Treatment Plant (ETP) having Primary, Secondary & Tertiary Treatment, MEE and RO. 150 m³/day cooling tower blowdown shall be treated through RO/Filtration and approx 130 m³/day RO permeate shall be used as makeup water for cooling tower. 20 m³/day RO reject shall be treated in MEE system. 644 m³/day industrial effluent shall be treated through pre-treatment, stripper and MEE system. 616 m³/day MEE condensate and 828 m³/day industrial effluent shall be treated in ETP. 1439 m³/day shall be treated in ETP by giving tertiary treatment. 739 m³/day ETP treated effluent will be passed through cartridge filter. 117 m³/day shall be used in cooling tower makeup and 622 m³/day to processing, APCM and washing purpose. 700 m³/day ETP treated effluent shall be treated through RO, MEE and approximately 505 m³/day RO permeate and 185 m³/day MEE condensate shall be used for boiler makeup. Domestic effluent of 100 m³/day shall be treated through Sewage Treatment Plant (STP) & treated water shall be used for greenbelt development and maintenance OR mixed with industrial effluent 6. As proposed, PP shall explore the possibility of reduction of Coal consumption gradually as primary fuel and replace with green fuel (Natural Gas, Agro-Briquettes). 7. No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard. 8. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard. 9. The project proponent shall comply with the environment norms for Pesticide Industry as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 446(E), dated 13.6.2011 under the provisions of the Environment (Protection) Rules, 1986. 10. All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996. 11. The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out. 12. The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report. 13. The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection. 14. Training shall be imparted to all employees on safety and health aspects for handling chemicals.

S. No	EC Conditions
	Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies. 15. 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. 16. The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation. 17. The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.
1.2	<u>ANNEXURE-I</u> <u>GENERAL EC CONDITIONS</u> - • No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. • The PP shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts. • The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment. • 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). • The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. • 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

S. No	EC Conditions
	conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose. • A copy of the clearance letter shall be sent by the PP to concerned Panchayat, ZillaParishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. • The PP shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated 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. • 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 Integrated Regional Office of MoEF&CC by e-mail. • The PP 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 and at https://parivesh.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. • The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project. • This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project. ***

Additional EC Conditions

- a) Adequate Scrubbers shall be provided to control process emissions viz. Ammonia, HCl, HBr, NaCN, DMA, Cl₂, H₂S, Br₂ and SO₂. The scrubbing media shall be reclaimed or sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards. Methane and Isobutylene shall be diffused by using Nitrogen through Flame arrestor to avoid formation of explosive mixture
- b) PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority

Annexure 2

Details of the Project

S. No.	Particulars	Details	
a.	Details of the Project	M/s. Bharat Rasayan Limited (Unit-2)	
b.	Latitude and Longitude of the project site	null,null	
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved	Area in Ha
		Non-Forest Land (A)	10.5106
		Forest Land (B)	0
		Total Land (A+B)	10.5106
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	
f.	Project Cost (in lacs)	20000	
g.	EMP Cost (in lacs)	1600	
h.	Employment Details		

Details of Products & By-products

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Profenofos Technical	Product	150	50	200	Tons per Annum (TPA)	Road
Methanesulfonamide, N-(2-cyanophenyl)-1,1,1-trifluoro (TSBN)	Product	0	0	0	Tons per Annum (TPA)	Road
Amitraz Technical	Product	0	0	0	Tons per Annum (TPA)	Road
Atrazine	Product	300	0	300	Tons per Annum (TPA)	Road
Halosulfuron-methyl	Product	50	0	50	Tons per Annum (TPA)	Road
Icaridin	Product	0	0	0	Tons per Annum (TPA)	Road
Isofetamid	Product	0	0	0	Tons per Annum	Road

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
					(TPA)	
Lambda Cyhalothric Acid	Product	500	0	500	Tons per Annum (TPA)	Road
M,N,O-1,2 dimethyl-N-nitrosourea	Product	0	0	0	Tons per Annum (TPA)	Road
Isopropyl 5-chloro-4-Methyl-2-nitrobenzoate (CMNBP)	Product	0	0	0	Tons per Annum (TPA)	Road
Chlorpyrifos Technical	Product	0	0	0	Tons per Annum (TPA)	Road
Glyphosate Technical	Product	0	0	0	Tons per Annum (TPA)	Road
2,4-D Amine salt	Product	0	1200	1200	Tons per Annum (TPA)	Road
Kresoxim Methyl	Product	0	50	50	Tons per Annum (TPA)	Road
Sulfentrazone	Product	0	150	150	Tons per Annum (TPA)	Road
Dinotefuran	Product	0	100	100	Tons per Annum (TPA)	Road
Flubendiamide	Product	0	200	200	Tons per Annum (TPA)	Road
Cypermethric acid (CMA)	Product	0	600	600	Tons per Annum (TPA)	Road
Pyriproxyfen	Product	0	100	100	Tons per Annum (TPA)	Road
Paraquate Technical	Product	0	0	0	Tons per Annum (TPA)	Road
Deltamethrin Technical	Product	0	0	0	Tons per Annum (TPA)	Road
2-hydroxy propyloxymine hydrochloride (HPOA HCl)	Product	150	50	200	Tons per Annum (TPA)	Road
Tolfenpyrad	Product	100	0	100	Tons per Annum (TPA)	Road

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Quinoxyfen	Product	0	100	100	Tons per Annum (TPA)	Road
Carboxin	Product	0	100	100	Tons per Annum (TPA)	Road
4-(Trifluoromethoxy) aniline (TFMA)	Product	0	200	200	Tons per Annum (TPA)	Road
Paclobutrazol	Product	100	0	100	Tons per Annum (TPA)	Road
Penoxsulam	Product	100	0	100	Tons per Annum (TPA)	Road
Zineb	Product	0	0	0	Tons per Annum (TPA)	Road
Dimefluthrin Technical	Product	0	0	0	Tons per Annum (TPA)	Road
Acetamiprid Technical	Product	200	0	200	Tons per Annum (TPA)	Road
Tembotrione	Product	0	200	200	Tons per Annum (TPA)	Road
Oxyfluorfen	Product	0	100	100	Tons per Annum (TPA)	Road
Amisulbrom	Product	0	100	100	Tons per Annum (TPA)	Road
Picoxystrobin Technical	Product	50	0	50	Tons per Annum (TPA)	Road
Spiromesifen Technical	Product	50	0	50	Tons per Annum (TPA)	Road
Pilot products	Product	100	0	100	Tons per Annum (TPA)	Road
Lambdacyhalothric acid chloride	Product	0	400	400	Tons per Annum (TPA)	Road
Thiacloprid	Product	0	50	50	Tons per Annum (TPA)	Road
Diiflubenzuron	Product	0	50	50	Tons per	Road

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
					Annum (TPA)	
Flonicamid	Product	0	100	100	Tons per Annum (TPA)	Road
Alpha Cypermethrin Technical	Product	600	300	900	Tons per Annum (TPA)	Road
4-acetyl-2-methylbenzamide (AMBAD)	Product	100	0	100	Tons per Annum (TPA)	Road
Chlorimuron Ethyl Technical (95%)	Product	25	0	25	Tons per Annum (TPA)	Road
Diafenthiuron Technical	Product	800	0	800	Tons per Annum (TPA)	Road
Lambda Cyhalothrin Technical	Product	1000	200	1200	Tons per Annum (TPA)	Road
Bifenthrin Technical	Product	700	200	900	Tons per Annum (TPA)	Road
Chlorpyrifos-methyl Technical	Product	200	0	200	Tons per Annum (TPA)	Road
Clodinafop Propargyl Technical	Product	200	0	200	Tons per Annum (TPA)	Road
Diuron Technical	Product	900	0	900	Tons per Annum (TPA)	Road
Difenoconazole Technical	Product	150	0	150	Tons per Annum (TPA)	Road
Isoprothiolane Technical (96%)	Product	150	0	150	Tons per Annum (TPA)	Road
Indoxacarb Technical	Product	80	20	100	Tons per Annum (TPA)	Road
Cypermethrin Technical	Product	1600	200	1800	Tons per Annum (TPA)	Road
Propanil Technical	Product	100	50	150	Tons per Annum (TPA)	Road
3',5'-Dichloro-2,2,2-trifluoroacetophenone (DCAP)	Product	100	0	100	Tons per Annum	Road

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
					(TPA)	
Ethion Technical	Product	1000	200	1200	Tons per Annum (TPA)	Road
Fipronil Technical	Product	200	0	200	Tons per Annum (TPA)	Road
Fenpyroximate Technical	Product	25	0	25	Tons per Annum (TPA)	Road
Imidacloprid Technical	Product	300	0	300	Tons per Annum (TPA)	Road
Imazethapyr Technical (97%)	Product	100	0	100	Tons per Annum (TPA)	Road
Metribuzin Technical	Product	1000	200	1200	Tons per Annum (TPA)	Road
Pyrazosulfuron-ethyl Technical (97%)	Product	50	0	50	Tons per Annum (TPA)	Road
Transfluthrin Technical	Product	150	0	150	Tons per Annum (TPA)	Road
Tebuconazole Technical (93%)	Product	600	0	600	Tons per Annum (TPA)	Road
m-Phenoxybenzaldehyde	Product	1840	1160	3000	Tons per Annum (TPA)	Road
Pendimethalin Technical	Product	1000	0	1000	Tons per Annum (TPA)	Road
Tricyclazole Technical	Product	125	175	300	Tons per Annum (TPA)	Road
Metsulfuron-methyl Technical	Product	30	70	100	Tons per Annum (TPA)	Road
Novaluron Technical	Product	50	0	50	Tons per Annum (TPA)	Road
Phenthoate Technical	Product	500	700	1200	Tons per Annum (TPA)	Road
Pretilachlor Technical	Product	400	100	500	Tons per Annum (TPA)	Road

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Propargite Technical	Product	50	0	50	Tons per Annum (TPA)	Road
Permethrin Technical	Product	500	0	500	Tons per Annum (TPA)	Road
Sulfosulfuron Technical	Product	50	100	150	Tons per Annum (TPA)	Road
Thiamethoxam Technical	Product	1000	0	1000	Tons per Annum (TPA)	Road
Azoxystrobin Technical	Product	200	0	200	Tons per Annum (TPA)	Road
Cymoxanil Technical (98%)	Product	150	0	150	Tons per Annum (TPA)	Road
Thiodicarb Technical (94%)	Product	150	0	150	Tons per Annum (TPA)	Road
Fenvalerate Technical	Product	78	122	200	Tons per Annum (TPA)	Road
2,4-D-Ethyl Ester	Product	700	500	1200	Tons per Annum (TPA)	Road
Carfentrazone-ethyl	Product	50	0	50	Tons per Annum (TPA)	Road
Cypermethric acid chloride (CMAC)	Product	2000	0	2000	Tons per Annum (TPA)	Road
3,6-dichloropyridazin-4-ol (DCHD)	Product	0	0	0	Tons per Annum (TPA)	Road
Fenoxaprop-P-ethyl	Product	200	0	200	Tons per Annum (TPA)	Road
Fenpropathrin Technical (90% min)	Product	150	0	150	Tons per Annum (TPA)	Road
Pymetrozine	Product	200	0	200	Tons per Annum (TPA)	Road
Hexaconazole Technical	Product	0	200	200	Tons per Annum (TPA)	Road
Triclopyr Technical	Product	0	0	0	Tons per	Road

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
					Annum (TPA)	
Trifloxystrobin	Product	0	100	100	Tons per Annum (TPA)	Road
m-bromobenzaldehyde	Product	0	500	500	Tons per Annum (TPA)	Road
Isopropyl bromide	Product	0	600	600	Tons per Annum (TPA)	Road
Para chlorophenyl acetic acid (PCPAA)	Product	0	250	250	Tons per Annum (TPA)	Road
4-acetyl-2-methylbenzoic acid (AMBA)	Product	50	0	50	Tons per Annum (TPA)	Road
Bispyribac sodium salt	Product	200	0	200	Tons per Annum (TPA)	Road
Pyriethion Sodium	Product	50	0	50	Tons per Annum (TPA)	Road
Meperfluthrin Technical	Product	0	0	0	Tons per Annum (TPA)	Road
m-Phenoxybenzyl Alcohol	Product	200	200	400	Tons per Annum (TPA)	Road
Propiconazole Technical	Product	100	50	150	Tons per Annum (TPA)	Road
Cloquintocet-mexyl Technical (Safener Technical)	Product	0	0	0	Tons per Annum (TPA)	Road
Temephos Technical	Product	0	50	50	Tons per Annum (TPA)	Road
Buprofezin Technical	Product	0	0	0	Tons per Annum (TPA)	Road
Dichlorvos Technical	Product	0	0	0	Tons per Annum (TPA)	Road
Triazophos Technical	Product	0	0	0	Tons per Annum (TPA)	Road
Quizalofop ethyl	Product	100	100	200	Tons per Annum	Road

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
					(TPA)	
Glufosinate ammonium	Product	0	200	200	Tons per Annum (TPA)	Road
Cyazofamid	Product	0	100	100	Tons per Annum (TPA)	Road
Clothianidin	Product	0	100	100	Tons per Annum (TPA)	Road
Clomazone	Product	0	50	50	Tons per Annum (TPA)	Road
Butachlor Technical	Product	0	0	0	Tons per Annum (TPA)	Road
Cartap Hydrochloride	Product	300	0	300	Tons per Annum (TPA)	Road
Thifluzamide	Product	170	0	170	Tons per Annum (TPA)	Road
Thiophanate-methyl	Product	200	300	500	Tons per Annum (TPA)	Road
Topramezone	Product	50	0	50	Tons per Annum (TPA)	Road
Zeta Cypermehrin	Product	350	250	600	Tons per Annum (TPA)	Road
2,6-Dibromo-4-(trifluoromethoxy)aniline (TFMDBA)	Product	0	200	200	Tons per Annum (TPA)	Road
Pyraclostrobin	Product	0	50	50	Tons per Annum (TPA)	Road
Acetal of m-phenoxy benzaldehyde (MPBA)	Product	0	500	500	Tons per Annum (TPA)	Road
5-Amino-3-cyano-1-(2,6-dichloro-4- trifluoromethylphenyl)pyrazole	Product	0	300	300	Tons per Annum (TPA)	Road
Myclobutanil Technical	Product	15	5	20	Tons per Annum (TPA)	Road
Bromobenzene	Product	0	0	0	Tons per Annum (TPA)	Road

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Fluxametamide	Product	50	100	150	Tons per Annum (TPA)	Road
Chlorantraniliprole	Product	0	600	600	Tons per Annum (TPA)	Road
Imibenconazole	Product	50	0	50	Tons per Annum (TPA)	Road
Propoxy Ethyl Chloride	Product	0	0	0	Tons per Annum (TPA)	Road
Prallethrin Technical	Product	25	75	100	Tons per Annum (TPA)	Road
6-Fluoro-2-methyl indole (6-FMI)	Product	75	125	200	Tons per Annum (TPA)	Road
((Isopropylthio)acetic acid)	Product	0	100	100	Tons per Annum (TPA)	Road
Chlormequat Chloride	Product	0	200	200	Tons per Annum (TPA)	Road
Ethiprole	Product	0	300	300	Tons per Annum (TPA)	Road
Flumethric Acid	Product	0	0	0	Tons per Annum (TPA)	Road
Flumethrin Technical	Product	0	0	0	Tons per Annum (TPA)	Road
Imiprothrin Technical	Product	0	0	0	Tons per Annum (TPA)	Road
Metofluthrin Technical	Product	0	0	0	Tons per Annum (TPA)	Road

**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IA DIVISION-INDUSTRY-3 SECTOR)**

Dated: 07.09.2023

**MINUTES OF THE 63rd EXPERT APPRAISAL COMMITTEE (INDUSTRY-3 SECTOR)
MEETING HELD ON 31st August, 2023**

Venue: Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003 through **Video Conferencing (VC)**

Time: 10:30 AM onwards

(i) Opening Remarks by the Chairman

Prof. (Dr.) A.B. Pandit, Chairman welcomed the Committee members and opened the EAC meeting for further deliberations.

(ii) Details of Agenda items by the Member Secretary

The Member Secretary apprised the Committee about the details of Agenda items to be discussed during this Expert Appraisal Committee (EAC) meeting.

(iii) Confirmation of Minutes of the 62nd EAC Meeting of the EAC (Industry-3 Sector).

The EAC noted that the final minutes of the above meeting were issued after incorporating the comments offered by the members and approved by the Chairman. Accordingly, the MoM were confirmed.

Agenda No. 63.1

Proposed Establishment of Synthetic Organic Chemicals Manufacturing Unit with Production Capacity of 2300 MT/Month (Melamine Formaldehyde Resin- 325 MT/Month, Urea Formaldehyde Resin- 300 MT/Month, Phenol Formaldehyde Resin-1300 MT/Month, Cardanol Phenol Formaldehyde Resin – 375 MT/Month) in the existing laminate sheets manufacturing unit located at Survey no. 107, 110 p2, Near Expert particle board, Bharatnagar ITI Road, Ravapar Nadi, Morbi, Gujarat by M/s. Satvva Decor LLP - Reconsideration of Environmental Clearance

[Proposal No: IA/GJ/IND3/428674/2023; File No. IA-J-11011/244/2022-IA-II(I)]

1. The proposal is for the Environmental Clearance for the Proposed establishment of Synthetic Organic Chemicals Manufacturing Unit with Production Capacity of 2300 MT/Month (Melamine Formaldehyde Resin- 325 MT/Month, Urea Formaldehyde Resin- 300 MT/Month,

- (xvii) 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.
- (xviii) The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xix) The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.
- (xx) The MoEF&CC Notifications on Fly Ash Utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.08.2003, S.O. 2804(E) dated 3.11.2009, S.O. 254(E) dated 25.01.2016 as amended from time to time shall be complied.
- (xxi) Flue Gas Desulphurisation System shall be installed based on Lime/Ammonia dosing to capture Sulphur in the flue gases to meet the SO₂ emissions standard of 100 mg/Nm³.
- (xxii) High efficiency Electrostatic Precipitators (ESPs) shall be installed in each unit to ensure that particulate matter (PM) emission to meet the stipulated standards of 30 mg/Nm³.
- (xxiii) The project proponent shall prepare 100% fly ash and bottom ash utilization plan and implemented in stipulated time period. The PP shall comply with Ministry's latest Notification regarding fly ash utilization from first year of commissioning. Bottom ash shall be explored to utilized as a resource not as a waste.
- (xxiv) The storage of toxic/hazardous raw material shall be bare minimum with respect to their quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.

Agenda No. 63.8

Proposed Expansion of the Production Capacity of Existing Unit for Manufacturing of Agrochemicals & their intermediates-with production capacity from 16900 MTA to 24990 MTA located at Plot No. 42/4, Amod Road, Dahej-I GIDC Industrial Estate, Dahej District - Bharuch, Gujarat by M/s. Bharat Rasayan Limited (Unit-II) - Consideration of Environmental Clearance

[Proposal No. IA/GJ/IND3/422273/2023; File No. J-11011/961/2008-IA-II(I)]

1. The proposal is for the environmental clearance for the Proposed Expansion of the Production Capacity of Existing Unit for Manufacturing of Agrochemicals & their intermediates—with production capacity from 16900 MTA to 24990 MTA located at Plot No. 42/4, Amod Road, Dahej-I GIDC Industrial Estate, Dahej District - Bharuch, Gujarat by M/s. Bharat Rasayan Limited (Unit-II).
2. The project/activity is covered under Category 'A' of 5(b) Pesticides & Pesticide Specific Intermediates (excluding formulations) of Schedule of Environment Impact Assessment (EIA) Notification, 2006 (as amended).
3. The Standard ToR was issued by the Ministry, vide letter no. J-11011/961/2008-IA-II (I) dated 06.01.2023. The PP applied for Environment Clearance in the Common Application Form and submitted EIA/EMP Report and other documents. The PP in the Form reported that it is a Expansion EC case. The proposal is placed in this 63rd EAC meeting on 31st August, 2023, wherein the PP along with accredited Consultant, M/s. Siddhi Green Excellence Pvt. Ltd., Ankleshwar (NABET/EIA/2225/RA 0280 valid till 06th October, 2025] made a detailed presentation on the salient features of the project. The information submitted by the PP is as follows:
4. The PP reported that the Existing land area is 105106.75 m² and no additional land will be used for the proposed expansion. The details of products to be manufactured are as follows:

Sr . No.	Name of Product	CAS No.	As per Existing CT O (1)	As per Existing EC addition(2)	EC expansion for addition / reduction(3)	Total after EC Expansion (1+2+3)	End use
			MT/A	MT/A	MT/A	MT/A	
1.	2,4-D-Ethyl Ester	533-23-3	0	700	500	1200	Weedicide
2.	4-acetyl-2-methylbenzoic acid (AMBA)	55860-35-0	0	50	0	50	Intermediate
3.	Atrazine	1912-24-9	0	400	-100	300	Herbicide
4.	Azoxystrobin Technical	131860-	0	200	0	200	Fungicide

Sr. No.	Name of Product	CAS No.	As per Existing CT O (1)	As per Existing EC additional(2)	EC expansion for addition / reduction(3)	Total after EC Expansion (1+2+3)	End use
			MT/A	MT/A	MT/A	MT/A	
		33-8					de
5.	Bispyribac sodium salt	125401-92-5	0	200	0	200	Herbicide
6.	Butachlor Technical	23184-66-9	0	1000	-1000	0	Herbicide
7.	Carfentrazone-ethyl	128639-02-1	0	50	0	50	Herbicide
8.	Cartap Hydrochloride	15263-52-2	0	300	0	300	Insecticide
9.	Cypermethric acid chloride (CMAC)	52314-67-7	1000	2000	-1000	2000	Intermediate
10.	Isopropyl 5-chloro-4-Methyl-2-nitrobenzoate (CMNBP)	120451-8-43-3	0	100	-100	0	Intermediate
11.	Cymoxanil Technical (98%)	57966-95-7	0	300	-150	150	Fungicide
12.	3,6-dichloropyridazin-4-ol (DCHD)	2779-81-9	0	100	-100	0	Intermediate
13.	Deltamethrin Technical	52918-63-5	0	300	-300	0	Insecticide
14.	Fenoxaprop-P-ethyl	71283-80-2	0	200	0	200	Herbicide
15.	Fenpropathrin Technical (90% min)	64257-84-7	0	150	0	150	Insecticide
16.	Halosulfuron-methyl	100784-	0	50	0	50	Herbicide

Sr. No.	Name of Product	CAS No.	As per Existing CT O (1)	As per Existing EC addition(2)	EC expansion for addition / reduction(3)	Total after EC Expansion (1+2+3)	End use
			MT/A	MT/A	MT/A	MT/A	
.		20-1					de
17	2-hydroxy propyloxyamine hydrochloride (HPOA HCl)	950595-72-9	50	100	50	200	Intermediate
18	Icaridin	119515-38-7	0	15	-15	0	Insecticide
19	Imibenconazole	86598-92-7	50	100	-100	50	Fungicide
20	Isofetamid	875915-78-9	0	100	-100	0	Fungicide
21	Lambda CyhalothricAcid	72748-35-7	350	1000	-850	500	Intermediate
22	M,N,O-1,2 dimethyl-N-nitrosourea	255708-80-8	0	100	-100	0	Intermediate
23	Paclobutrazol	76738-62-0	100	50	-50	100	Plant growth regulator
24	Penoxsulam	219714-96-2	60	100	-60	100	Herbicide
25	Picoxystrobin Technical	117428-22-5	0	50	0	50	Fungicide
26	Pymetrozine	123312-89-0	300	100	-200	200	Insecticide
27	Pyrithiobac Sodium	123343-16-8	0	50	0	50	Herbicide

Sr. No.	Name of Product	CAS No.	As per Existing CT O (1)	As per Existing EC additional(2)	EC expansion for addition / reduction(3)	Total after EC Expansion (1+2+3)	End use
			MT/A	MT/A	MT/A	MT/A	
28	Spiromesifen Technical	283594-90-1	0	50	0	50	Insecticide
29	Thifluzamide	130000-40-7	0	170	0	170	Fungicide
30	Thiodicarb Technical (94%)	59669-26-0	0	150	0	150	Insecticide
31	Thiophanate-methyl	23564-05-8	0	200	300	500	Fungicide
32	Tolfenpyrad	129558-76-5	60	50	-10	100	Insecticide
33	Topramezone	210631-68-8	0	50	0	50	Herbicide
34	Zeta Cypermehrin	52315-07-8	0	350	250	600	Insecticide
35	Zineb	12122-67-7	0	200	-200	0	Fungicide
36	Dimefluthrin Technical	271241-14-6	0	15	-15	0	Insecticide
37	Meperfluthrin Technical	915288-13-0	0	8	-8	0	Insecticide
38	Pilot products	--	75	100	-75	100	--
39	Acetamiprid Technical	135410-20-7	0	500	-300	200	Insecticide

Sr No.	Name of Product	CAS No.	As per Exis ting CT O (1)	As per Existin g EC additio nal(2)	EC expansi on for additio n / reducti on(3)	Total after EC Expa nsion (1+2+ 3)	End use
			MT/ A	MT/A	MT/A	MT/A	
40	Alpha Cypermethrin Technical	67375-30-8	300	300	300	900	Insectic ide
41	4-acetyl-2-methylbenzamide (AMBAD)	109527 5-06-1	25	75	0	100	Interme diate
42	Bifenthrin Technical	82657-04-3	100	600	200	900	Insectic ide
43	Chlorpyrifos-methyl Technical	5598-13-0	250	400	-450	200	Insectic ide
44	Clodinafop Propargyl Technical	105512-06-9	250	50	-100	200	Herbici de
45	Cypermethrin Technical	52315-07-8	800	800	200	1800	Insectic ide
46	Chlorimuron Ethyl Technical (95%)	90982-32-4	10	15	0	25	Herbici de
47	Diafenthiuron Technical	80060-09-9	400	500	-100	800	Insectic ide
48	Propanil Technical	709-98-8	0	100	50	150	Herbici de
49	Diuron Technical	330-54-1	900	300	-300	900	Herbici de
50	Difenoconazole Technical	119446-68-3	100	250	-200	150	Fungici de
51	3',5'-Dichloro-2,2,2-trifluoroacetophenone (DCAP)	130336-16-2	25	75	0	100	Interme diate

Sr No.	Name of Product	CAS No.	As per Exis ting CT O (1)	As per Existin g EC additio nal(2)	EC expansi on for additio n / reducti on(3)	Total after EC Expa nsion (1+2+ 3)	End use
			MT/ A	MT/A	MT/A	MT/A	
52	Ethion Technical	563-12-2	700	300	200	1200	Insectic ide
53	Fipronil Technical	120068-37-3	60	540	-400	200	Insectic ide
54	Fenpyroximate Technical	111812-58-9	15	10	0	25	Insectic ide
55	Isoprothiolane Technical (96%)	50512-35-1	100	50	0	150	Fungici de
56	Imidacloprid Technical	138261-41-3	0	350	-50	300	Insectic ide
57	Indoxacarb Technical	173584-44-6	0	80	20	100	Insectic ide
58	Imazethapyr Technical (97%)	81335-77-5	50	50	0	100	Herbici de
59	Lambda Cyhalothrin Technical	91465-08-6	600	400	200	1200	Insectic ide
60	m-Phenoxybenzaldehyde	39515-51-0	1750	90	1160	3000	Interme diate
61	Metsulfuron-methyl Technical	74223-64-6	20	10	70	100	Herbici de
62	Metribuzin Technical	21087-64-9	400	600	200	1200	Herbici de
63	Novaluron Technical	116714-46-6	10	90	-50	50	Insectic ide

Sr. No.	Name of Product	CAS No.	As per Existing CT O (1)	As per Existing EC addition(2)	EC expansion for addition / reduction(3)	Total after EC Expansion (1+2+3)	End use
			MT/A	MT/A	MT/A	MT/A	
64	Propargite Technical	2312-35-8	25	75	-50	50	Insecticide
65	Pendimethalin Technical	40487-42-1	600	400	0	1000	Herbicide
66	Phenthoate Technical	07-03-2597	400	100	700	1200	Insecticide
67	Permethrin Technical	52645-53-1	250	250	0	500	Insecticide
68	Pretilachlor Technical	51218-49-6	0	400	100	500	Herbicide
69	Pyrazosulfuron-ethyl Technical (97%)	93697-74-6	25	25	0	50	Herbicide
70	Sulfosulfuron Technical	141776-32-1	20	30	100	150	Herbicide
71	Tricyclazole Technical	41814-78-2	25	100	175	300	Fungicide
72	Transfluthrin Technical	118712-89-3	60	90	0	150	Insecticide
73	Thiamethoxam Technical	153719-23-4	750	400	-150	1000	Insecticide
74	Tebuconazole Technical (93%)	107534-96-3	300	500	-200	600	Fungicide
75	Flumethrin Technical	69770-45-2	15	15	-30	0	Insecticide

Sr. No.	Name of Product	CAS No.	As per Existing CT O (1)	As per Existing EC additional(2)	EC expansion for addition / reduction(3)	Total after EC Expansion (1+2+3)	End use
			MT/A	MT/A	MT/A	MT/A	
76	Imiprothrin Technical	72963-72-5	8	12	-20	0	Insecticide
77	Metofluthrin Technical	240494-70-6	4	18	-22	0	Insecticide
78	Flumethric Acid	88419-72-1	15	35	-50	0	Intermediate
79	Propoxy Ethyl Chloride	42149-74-6	0	100	-100	0	Intermediate
80	Fenvalerate Technical	51630-58-1	78	0	122	200	Insecticide
81	Hexaconazole Technical	79983-71-4	0	0	200	200	Fungicide
82	m-Phenoxybenzyl Alcohol	13826-35-2	200	0	200	400	Intermediate
83	Myclobutanil Technical	88671-89-0	15	0	5	20	Fungicide
84	Prallethrin Technical	23031-36-9	25	0	75	100	Insecticide
85	Profenofos Technical	41198-08-7	150	0	50	200	Insecticide
86	Propiconazole Technical	60207-90-1	100	0	50	150	Fungicide
87	Temephos Technical	3383-96-8	0	0	50	50	Insecticide

Sr No.	Name of Product	CAS No.	As per Exis ting CT O (1)	As per Existin g EC additio nal(2)	EC expansi on for additio n / reducti on(3)	Total after EC Expansi on (1+2+ 3)	End use
			MT/ A	MT/A	MT/A	MT/A	
88	Buprofezin Technical	69327-76-0	0	-140	140*	0	Insectic ide
89	Chlorpyrifos Technical	2921-88-2	0	-910	910*	0	Insectic ide
90	Dichlorvos Technical	62-73-7	0	-150	150*	0	Insectic ide
91	Glyphosate Technical	1071-83-6	0	-50	50*	0	Herbici de
92	Paraquate Technical	4685-14-7	0	-43	43*	0	Herbici de
93	Triazophos Technical	24017-47-8	0	-100	100*	0	Insectic ide
94	6-Fluoro-2-methyl indole (6-FMI)	40311-13-5	75	0	125	200	Interme diate
95	Fluxametamide	928783-29-3	50	0	100	150	Pestici de
96	Quizalofop ethyl	100646-51-3	100	0	100	200	Herbici de
97	2,4-D Amine salt	2008-39-1	0	0	1200	1200	Interme diate
98	2,6-Dibromo-4-(trifluoromethoxy)aniline (TFMDBA)	88149-49-9	0	0	200	200	Interme diate
99	((Isopropylthio)acetic acid)	22818-59-3	0	0	100	100	Interme diate

Sr. No.	Name of Product	CAS No.	As per Existing CT O (1)	As per Existing EC additional(2)	EC expansion for addition / reduction(3)	Total after EC Expansion (1+2+3)	End use
			MT/A	MT/A	MT/A	MT/A	
100.	Chlormequat Chloride	999-81-5	0	0	200	200	Plant growth regulator
101.	Glufosinate ammonium	77182-82-2	0	0	200	200	Herbicide
102.	Kresoxim Methyl	10217-52-4	0	0	50	50	Fungicide
103.	Sulfentrazone	122836-35-5	0	0	150	150	Herbicide
104.	Dinotefuran	165252-70-0	0	0	100	100	Insecticide
105.	Chlorantraniliprole	500008-45-7	0	0	600	600	Insecticide
106.	Pyraclostrobin	175013-18-0	0	0	50	50	Fungicide
107.	Cyazofamid	120116-88-3	0	0	100	100	Fungicide
108.	Clothianidin	210880-92-5	0	0	100	100	Insecticide
109.	Clomazone	81777-89-1	0	0	50	50	Herbicide
110.	Tembotrione	335104-84-2	0	0	200	200	Herbicide
111.	Trifloxystrobin	141517-	0	0	100	100	Fungicide

Sr. No.	Name of Product	CAS No.	As per Existing CT O (1)	As per Existing EC additional(2)	EC expansion for addition / reduction(3)	Total after EC Expansion (1+2+3)	End use
			MT/A	MT/A	MT/A	MT/A	
1.		21-7					de
11 2.	Flubendiamide	272451-65-7	0	0	200	200	Insecticide
11 3.	Oxyflurofen	42874-03-3	0	0	100	100	Herbicide
11 4.	Quinoxifen	124495-18-7	0	0	100	100	Herbicide
11 5.	Amisulbrom	348635-87-0	0	0	100	100	Fungicide
11 6.	m-bromobenzaldehyde	3132-99-8	0	0	500	500	Intermediate
11 7.	Acetal of m-phenoxy benzaldehyde (MPBA)	62373-79-9	0	0	500	500	Intermediate
11 8.	Lambdacyhalothric acid chloride	76496-71-4	0	0	400	400	Intermediate
11 9.	Cypermethric acid (CMA)	59042-49-8	0	0	600	600	Intermediate
12 0.	Isopropyl bromide	75-26-3	0	0	600	600	Intermediate
12 1.	5-Amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)pyrazole	120068-79-3	0	0	300	300	Intermediate
12 2.	Para chlorophenyl acetic acid (PCPAA)	1878-66-6	0	0	250	250	Intermediate

Sr. No.	Name of Product	CAS No.	As per Existing CT O (1)	As per Existing EC additional(2)	EC expansion for addition / reduction(3)	Total after EC Expansion (1+2+3)	End use
			MT/A	MT/A	MT/A	MT/A	
123.	Thiacloprid	111988-49-9	0	0	50	50	Insecticide
124.	Pyriproxyfen	95737-68-1	0	0	100	100	Insecticide
125.	Diflubenzuron	35367-38-5	0	0	50	50	Insecticide
126.	Carboxin	5234-68-4	0	0	100	100	Fungicide
127.	Flonicamid	158062-67-0	0	0	100	100	Insecticide
128.	Ethiprole	181587-01-9	0	0	300	300	Insecticide
129.	4-(Trifluoromethoxy) aniline (TFMA)	461-82-5	0	0	200	200	Intermediate
	Total		12200	16900	8090	37190	

These products are already withdrawn in previous EC. Among these products, Dichlorvos Technical and Triazophos Technical are included in the list of prohibited pesticides as per The Pesticides (Prohibition) Order, 2018 notified by S.O 3951 (E) dated 8th August, 2018. They are mentioned in the product list only to balance the quantity as 0 (zero) in total after EC expansion.

Formulation Products						
1.	Pesticide Formulation (Solid)	6000	0	0	6000	No Change
2.	Pesticide Formulation (Liquid)	6000	0	0	6000	No Change

All products proposed for expansion have LD₅₀ oral more than 100 mg/kg.

5. The PP reported that there is no violation case as per the Notification No. S.O. 804(E) dated 14.03.2017 and no direction is issued under E (P) Act/Air Act/Water Act.
6. The PP reported that there are no National parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Dahej Reserve Forest is covered at a distance of ~6 km towards West direction. Narmada Estuary is flowing at a distance of ~7 km towards South direction. Three Schedule-I species i.e Indian Peafowl (*Pavo cristatus*), Bengal Monitor Lizard (*Varanus bengalensis*) and Indian Flap-Shell Turtle (*Lissemys Punctata*) were observed in the 10 km radius from the proposed project for which conservation plan has been prepared and submitted to PCCF.
7. The PP reported that the Ministry had earlier issued EC. vide letter F. No. J-11011/961/2008-IA II (I) dated 5th Sept, 2012 & its corrigendum dated 10th Jan, 2013. Second EC: Unit has obtained EC from MoEF&CC vide no. J-11011/961/2008-IA-II(I) dated 19th October, 2020 . Unit has obtained CCR vide letter no. 5- 8/2011/(ENV)/410 dated 2nd July, 2019 from MoEF&CC, New Delhi – 110003 for first EC and for Second EC, unit has obtained CCR vide letter no. J-11/46-2023-IROGNR dated 26th May, 2023 from Integrated Regional Office, Gandhinagar, MoEF&CC in which 7 condition were partially complied for which ATR has been submitted to IRO vide mail dated 24.6.2023. ATR review letter for the partially complied conditions has been submitted by the IRO vide letter dated 9.8.2023, wherein all the partly compliances has been reported as complied.
8. The PP reported that **Ambient Air Quality:** Ambient air quality monitoring was carried out at 8 locations during December 2021 to February 2022 and the baseline data indicates the ranges of concentrations as PM₁₀ (79-97 µg/m³), PM_{2.5} (30-44 µg/m³), SO₂ (15-25 µg/m³) and NO_x (27-35 µg/m³) (98th percentile values) respectively. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed expansion would be 0.653 µg/m³, 0.289 µg/m³, 5.576 µg/m³ and 2.285 µg/m³ with respect to PM₁₀, PM_{2.5}, SO₂ and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS). **Noise quality:** The ambient noise level measurements were carried out at 9 locations during December 2021 to February 2022 and the baseline data indicates: Measured Leq (Day) from 47 dB(A) to 69 dB(A) and Leq (Night) from 38 dB(A) to 64 dB(A). **Ground water Quality:** Ground water monitoring was carried out at 8 locations during December 2021 to February 2022 and the baseline data indicates the ranges of concentrations as: pH from 7.645 to 8.471, Total hardness from 110.08 to 571.52 mg/L, TDS from 2725 to 3463mg/L, Chloride from 377 to 738 mg/L, Fluoride from 1 to 1.6 mg/L. **Surface water quality:** Surface water monitoring was carried out at 8 locations during December 2021 to February 2022 and the baseline data indicates the ranges as: For pond water pH ranged between 7.407 - 8.269, TDS: 291 - 738 mg/l, total hardness: 90-206 mg/l as CaCO₃, COD: 28 – 96 mg/L, DO: 6.9 – 9.35 mg/L, BOD: 4 – 10 mg/L. **Soil quality:** The soil quality monitoring was carried out at 8 locations during December 2021 to February 2022 and the baseline data indicates the ranges of concentrations as: pH of 5% leachate @ 25°C: 8.254 – 8.93, Electrical conductivity @ 25°C: 0.346 – 7.46 dS/m,

Exchangeable Calcium (Ca): 14 – 22 meq/100 gm, Exchangeable Magnesium (Mg): 9 – 20 meq/100 gm, Exchangeable Sodium Percentage (ESP): 5.87 – 45.03 %.

9. The PP reported that the Total water requirement is 3346 m³/day of which fresh water requirement of 1787 m³/day will be met from GIDC supply. Industrial Effluent of 1501 m³/day will be treated through Effluent Treatment Plant (ETP) having Primary, Secondary & Tertiary Treatment, MEE and RO. 150 m³/day cooling tower blowdown will be treated through RO/Filtration and approx 130 m³/day RO permeate shall be used as makeup water for cooling tower. 20 m³/day RO reject shall be treated in MEE system. 644 m³/day industrial effluent will be treated through pre-treatment, stripper and MEE system. 616 m³/day MEE condensate and 828 m³/day industrial effluent shall be treated in ETP. 1439 m³/day shall be treated in ETP by giving tertiary treatment. 739 m³/day ETP treated effluent will be passed through cartridge filter. 117 m³/day shall be used in cooling tower makeup and 622 m³/day to processing, APCM and washing purpose. 700 m³/day ETP treated effluent shall be treated through RO, MEE and approximately 505 m³/day RO permeate and 185 m³/day MEE condensate shall be used for boiler makeup. Domestic effluent of 100 m³/day will be treated through Sewage Treatment Plant (STP) & treated water shall be used for greenbelt development and maintenance OR mixed with industrial effluent.
10. The Power requirement after expansion will be 7000 KVA (no increase- granted in previous EC) including existing 2500 KVA and will be met from M/s. Dakshin Gujarat Vij Company Ltd. (DGVCL). Existing unit has 1 No. DG set of 750 KVA capacity, additionally 2 Nos. DG sets of 1500 KVA (no increase- granted in previous EC) of each will be used as standby during power failure for proposed expansion. Stack (15 m Height) will be provided as per CPCB norms to the proposed DG Set.
11. Existing unit has Multi fuel boilers (1 No. 18 MT/h & 1 No. 12 MT/h standby) and Thermic Fluid Heaters (2 Nos. 4 Lakh kcal/h each - 1 operational + 1 standby). Additionally Multi fuel boiler (1 No. 25 MT/h) and Thermic Fluid Heaters (2 Nos. 4 Lakh kcal/h each) will be installed as granted in previous EC. ESP shall be provided to Boilers and Bag filter shall be provided to Thermic Fluid Heaters with online CEMS on its stack (40 m height) for continuous monitoring. Natural gas OR LDO/FO (low sulphur) & Coal (low sulphur) is used as Fuel for MFBs & TFHs, HSD is used as Fuel for DG Set and same will be used after expansion.

Existing Flue Gas Stacks

Stack No.	Stack attached to	Capacity	Stack height from GL (m)	Name of fuel	Quantity of fuel	Air pollution control measures	Parameters	Permissible limits
1.	Boiler-1	18 MT/h	30	Natural	10000	ESP	PM	150

Stack No.	Stack attached to	Capacity	Stack height from GL (m)	Name of fuel	Quantity of fuel	Air pollution control measures	Parameters	Permissible limits		
(Existing)	Boiler-2 (Standby)	12 MT/h		gas OR LDO/FO (low sulphur) & Coal(low sulphur)	SM3/day OR 30 MT/day & 60 MT/day		SO2 NOx	mg/Nm3 100 ppm 50 ppm		
	Thermic fluid Heater-1	4 lakh kcal/h				Bag filter				
	Thermic fluid Heater-2 (Standby)	4 lakh kcal/h								
2.	DG set-1 (standby)	750 KVA	11	HSD	5 KL/day	Adequate stack height with SMF				
3. (granted in previous EC)	Boiler-3	25 MT/h	40	Natural gas OR LDO/FO (low sulphur) & Coal(low sulphur)	70000 SM3/day OR 60 MT/day & 140 MT/day	ESP	PM SO2 NOx	150 mg/Nm3 100 ppm 50 ppm		
	Thermic fluid Heater-3	4 lakh kcal/h				Bag filter				
	Thermic fluid Heater-4 (Standby)	4 lakh kcal/h								
4.	DG set-2 (standby)	1500 kVA	15	HSD	6 KL/day	Adequate stack height with SMF				
5.	DG set-3	1500	15	HSD	6	Adequate				

Stack No.	Stack attached to	Capacity	Stack height from GL (m)	Name of fuel	Quantity of fuel	Air pollution control measures	Parameters	Permissible limits
	(standby)	kVA			KL/day	stack height with SMF		

There is no change required due to the proposed expansion and flue gas scenario as per previous EC shall be continued

12. Details of Process Emissions Generation and its Management: After Proposed Expansion

There is process emission of HCl, SO₂, Cl₂, HBr, Br₂, H₂S, PM, VOC, NO_x, NH₃ from existing manufacturing process as well as other ancillary process. Additional process emissions from proposed expansion shall be same as those granted in previous EC, there shall be no additional new emission. New process stacks granted in previous EC shall therefore be continued. Two stage Water Scrubbers & caustic scrubber with coolers shall be provided to respective reaction vessels to control the emissions Existing Process gas stacks, emission and control measures:

Stack No.	Stack Attached to	PCB ID	Height (M)	Air Pollution Control System	Air Emission	
					Pollutant	Concentration
1 (Existing as per CTO)	Process Vent - 1	57769	15	Primary Scrubber Secondary Scrubber Ventury Scrubber with Caustic	HCl Cl ₂ SO ₂ HBr Br ₂	20 mg/Nm ³ 5 mg/Nm ³ 40 mg/Nm ³ 5 mg/Nm ³ 2 mg/Nm ³
2 (Existing as per CTO)	Process Vent - 2	57770	15	Caustic Scrubber with Blower	HCl Cl ₂ VOC	20 mg/Nm ³ 5 mg/Nm ³ --
3 (Existing as per CTO)	Process Vent - 3	57772	15	Primary Scrubber Secondary Scrubber Ventury Scrubber with Caustic	H ₂ S	5 mg/Nm ³
4 (Existing as per CTO)	Process Vent - 4	57771	15	Primary Scrubber Secondary Scrubber Ventury Scrubber with Caustic	HCl SO ₂	20 mg/Nm ³ 40 mg/Nm ³
5 (Existing)	Process Vent - 5	57773	15	Primary Scrubber Secondary Scrubber	HCl SO ₂	20 mg/Nm ³ 40 mg/Nm ³

				Ventury Scrubber with Caustic		
6 (Existing as per CTO)	Process Vent – 6	57774	15	Primary Scrubber Secondary Scrubber Ventury Scrubber with Caustic	HCl SO ₂	20 mg/Nm ³ 40 mg/Nm ³
7 (Existing)	Process Vent – 7	82984	15	Blower with Bag Filter	PM	150 mg/Nm ³
8 (Existing)	Process Vent - 8	82983	15	Blower with Bag Filter	PM	150 mg/Nm ³
9 (Existing as per CTO)	General Stack - 1	76201	15	Primary Scrubber with Caustic Circulation	VOC	--
10 (Existing as per CTO)	General Stack – 2	76202	15	Primary Scrubber with Caustic Circulation	VOC	--
11 (Existing)	General Stack – 3	76203	15	Primary Scrubber with Caustic Circulation	VOC	--
12 (Existing)	General Stack – 4	76204	15	Primary Scrubber with Caustic Circulation	VOC	--
13 (Existing as per CTO)	General Stack - 5	76205	15	Primary Scrubber with Caustic Blower	VOC	--
14 (Existing as per CTO)	General Stack - 6	76206	15	Primary Scrubber with Caustic Circulation	HCl Cl ₂	20 mg/Nm ³ 5 mg/Nm ³
15 (Existing as per CTO)	General Stack - 7	76207	15	Scrubber	DMA	--
16 (Existing as per CTO)	General Stack – 8	76208	15	Primary Scrubber Secondary Scrubber Blower with Caustic	NaCN	--
17 (Existing)	Process vent - 9	--	15	Primary Scrubber Secondary Scrubber	HCl SO ₂	20 mg/Nm ³ 40 mg/Nm ³

as per CTO)				Ventury Scrubber with Caustic		
18 (granted in previous EC)	Process vent – 10	--	15	Primary Scrubber Secondary Scrubber Ventury Scrubber with Caustic	HCl SO ₂	20 mg/Nm ³ 40 mg/Nm ³
19 (granted in previous EC)	Process vent – 11	--	15	Primary Scrubber Secondary Scrubber	NH ₃	175 mg/Nm ³
20 (granted in previous EC)	Process vent - 12	--	15	Primary Scrubber with Hypo secondary scrubber with caustic circulation	NO _x	25 mg/Nm ³
21 (Existing as per CTO)	General Stack – 9	--	15	Primary Scrubber with Caustic Circulation	VOC	--
22 (Existing as per CTO)	General Stack – 10	--	15	Primary Scrubber with Caustic Circulation	HCl	20 mg/Nm ³
23 (Existing as per CTO)	General Stack – 11	--	15	Primary Scrubber with Caustic Circulation	VOC	--
24 (granted in previous EC)	General Stack – 12	--	15	Blower with Bag filter	PM	150 mg/Nm ³
There shall be no any addition of process gas emission after proposed expansion. Existing as per previously granted EC shall be continued.						

13. Details of Solid Waste/ Hazardous Waste Generation and its Management:

SN	Type of Waste	From Generation	Category	As per Ex	Additional qty granted in Previous	Additional requ	Total after EC Expansion (1+2+3)	Management of HW
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		n		isting C C A (1)	EC (2)	ired in prop osed EC expa nsio n (3)		
1.	Used Oil	From Machinery	5.1	5.05	24.95	0	30	Disposal by selling to registered re-processors / reuse as lubricant within premises.
2.	Discarded containers, barrels, liners contaminated with hazardous waste chemicals /	From Raw material containers / barrels	33.1	64.9	1176	0	1825	Disposal to vendor or reuse within the premises.
3.	ETP sludge and MEE sludge	From ETP and MEE	35.3	95.50	5450	2155	17155	Disposal at TSDF site
4.	Process Waste / Waste Residue containing Pesticides	From process	29.1	20.66	384	1912	4362	Disposal by Co-processing/ Incineration at ICHWMF site
5.	Date expired & off specification on residues	From process	29.3	5	55	0	60	Disposal by Incineration at ICHWMF site
6.	Distillation residue from contaminated organics solvent	From process	36.1	72	173	0	245	Disposal by Co-processing/ Incineration at ICHWMF site
7.	Used catalyst (Spent catalyst)	From process	29.5	0.3	3.2	0.84	4.34	Disposal by reuse within premises
8.	Ammonia sol	From	A-	0	288	-20	268	disposal by selling

	(20%-25%)	process	10					to Actual end users having permission under Rule -9 and after making MoU
9.	Potassium chloride solution	From process	B-10	5768	39	-4024.11	1782.89	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
10.	Potassium chloride solid	From process	B-10	290	-563	1786.25	1513.25	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
11.	Aq. Alum (Aq. Aluminium chloride sol)	From process	B-10	9175	2919	9613.00	21707	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
12.	Sodium bromide sol	From process	B-10	2225	186	-115.56	2295.44	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
13.	Potassium bromide solution	From process	B-10	3776	-318	-824.87	2633.13	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
14.	Potassium bromide solid	From process	B-10	0	225	-83.90	141.1	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
15.	Hydrobromic acid	From process	B-10	519	60	173.04	752.04	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
16.	Ammonium chloride (soild)	From process	B-10	0	1375	208.89	1583.89	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
17.	Cupric	From	B-	0	24	7.20	31.2	Disposal by reuse

	chloride	process	10					within premises
18.	Spent acid, Dilute sulphuric acid & Hydrochloric acid (25% to 30% sol)	From process	B-15	5178	2223	2650.86	10051.86	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
19.	Ammonium sulphate solution	From process	B-15	510	166	-71	605	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
20.	Sodium sulfite sol	From process	B-15	3349	4741	1060.11	9150.11	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
21.	Sodium sulfite solid	From process	B-15	203	3654	1942.84	5799.84	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
22.	Sodium bisulfite (Sodium Hydrogen sulfite) solution	From process	B-15	1018	94	552.42	1664.42	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
23.	Phosphoric acid	From process	B-15	0	126	-126	0	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
24.	Mix solvent and formaline	From process	B-28	120	-230	260.00	150	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
25.	Di-methyl amine (DMA) solution 40%	From process	B-28	196	-80	-29.28	86.72	disposal by selling to Actual end users having permission under Rule -9 and after making MoU

26.	Acetic acid	From process	B-28	7	21	28.46	56.46	Disposal by sending to ETP along with effluent
27.	Methane sulfinic acid	From process	B-28	22	-7	0.08	15.08	Disposal by Co-processing/ Incineration at ICHWMF site
28.	Sulfur (solid)	From process	B-37	0	27	-0.3	26.7	Disposal at TSDF site
29.	Potassium methane sulfinate salt	From process	--	0	222	0	222	Disposal at TSDF site
30.	Sodium sulfate (Na ₂ SO ₄)	From process	--	--	--	72.31	72.31	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
31.	Ferrous chloride	From process	--	--	--	234.42	234.42	disposal by selling to Actual end users having permission under Rule -9 and after making MoU
32.	Sodium hypochlorite (NaOCl 10%)	From process	--	--	--	466.01	466.01	Disposal by reuse within premises
33.	Ethyl sulfate	From process	--	--	--	67.62	67.62	Disposal at TSDF site
34.	Stripper Solvent	Before MEE, effluent sent it to stripper.	Sch-II / B-28	500	--	--	500	Collection, Storage, Transportation, Disposal to CHWIF or Pre-processing/ Co-Processing facility/ selling to actual end users (Solvent Recycler) having permission under Rule -9 and after making MoU

ST Cypermethric Acid (STCMA) – Category Sch-II / B-28 - Generated from Product No. 72 - Transfluthrin Technical. After proposed expansion, process where generated will be changed and therefore this hazardous waste shall not be generated thereafter.

Phosphorous Salt (NaH₂PO₄) – Category C-2 - Generated from Product No. 75 & 78. After proposed expansion, these products shall be discontinued, therefore this hazardous waste shall not be generated thereafter

Non- Hazardous Waste

Sr. no.	Type/ Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Total Quantity after expansion (MT/Annum)	Management of Non Hazardous Waste
1.	Coal Ash	From boiler	5840	Collection, Storage in covered area with RCC flooring & Sell to brick manufacturers and/or cement industry

14. The Budget earmarked towards the Environmental Management Plan (EMP) is ₹ 16 Crore (capital) and the Recurring Cost (operation and maintenance) will be about ₹ 27.20 Crore per annum. Industry proposes to allocate Rs. 1.5 Crore towards Corporate Social Responsibility.
15. Industry has already developed greenbelt in an area of ~33.10 % i.e. 34792.93 m² out of total area of the project.
16. The PP reported that the public hearing is exempted as per the Para 7.III. Stage (3) (i) (b) of the EIA Notification, 2006 as the project is located within Dahej-I GIDC Industrial Estate which is covered within PCPIR Region (Petroleum, Chemical & Petrochemical Investment Region) & PCPIR has obtained Environmental Clearance and CRZ Clearance vide File No. 21-49/2010-IA-III dated 14th September, 2017.
17. The PP proposed to set up an Environment Management Cell (EMC) by engaging Head EHS- Head (R&D) for ETP – Sr. safety and fire officer- manager process safety – Manager Environment- Assistant Manager Environment- Shift Environment Engineer- for the functioning of EMC.
18. The PP reported that the greenbelt trees shall sequester approx. 2032 tons of CO₂ which is equivalent to ~102 tons of CO₂ per year during lifespan of 20 years. This amount of sequestration potential is appreciable and shall significantly reduce the carbon footprint of the unit.
19. The PP submitted the Disaster Management Plan and On-site and Off-site Emergency Plans in the EIA report.
20. The estimated project cost is Rs. 200 Crore (no increase- granted in previous EC for expansion only) & existing investment is Rs. 173.27 Crore. Total Employment will be 850 Nos. persons as direct & 650 Nos. persons indirect after expansion.

21. **Deliberations by the EAC:**

The EAC constituted under the provisions of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the PP in desired format along with the EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the PP.

The EAC noted that the PP has given an undertaking to the effect that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the PP.

The EAC noted that the EIA reports are in compliance with the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

The EAC inter-alia, deliberated on the greenbelt development plan, Fuel water balance, carbon footprint, SCN issued by the Ministry regarding partially complied conditions and advised the PP to submit the following:

- Action plan for Greenbelt development.
- Action plan for use of cleaner fuel.
- Revised water balance.
- Revised carbon footprint.
- Status of revocation of SCN issued by the Ministry regarding partially complied conditions

The PP submitted the above information/documents and the EAC found these to be satisfactory.

The EAC deliberated the Onsite and Offsite Emergency plans and also the various mitigation measures proposed during the implementation of the project and advised the PP to implement the provisions of the Rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, as amended from time to time.

The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for the grant of environmental clearance.

The EAC is of the view that its recommendation and grant of environmental clearance by the regulatory authority to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The PP shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

22. The EAC, after detailed deliberations, **recommended the project for the grant of environmental clearance, subject to the compliance of the terms and conditions as under, and general terms and conditions in Annexure-I:**

- i) The PP shall maintain/develop greenbelt over an area of at least 34792.93 m² (33%) within one year of grant of EC. The saplings (1650 number of trees) selected for the plantation should be of sufficient height, preferably 6-ft. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
- ii) A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. PP shall engage Head EHS- Head (R&D) for ETP – Sr. safety and fire officer- manager process safety – Manager Environment- Assistant Manager Environment-Shift Environment Engineer. In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
- iii) 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, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP is ₹ 16 Crore (Capital cost) and ₹ 27.20 Crore per annum (Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.

- iv) The Total water requirement shall not exceed 3446 m³/day of which fresh water requirement of 1787 m³/day shall be met from GIDC supply. The PP should ensure that water supply should not be above the permissible limit as mentioned in the letter and fresh water shall be withdrawn only after obtaining valid agreement from Concerned Authority. The PP should submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st July of every year for the activities carried out during the previous year.
- v) Industrial Effluent of 1501 m³/day shall be treated through Effluent Treatment Plant (ETP) having Primary, Secondary & Tertiary Treatment, MEE and RO. 150 m³/day cooling tower blowdown shall be treated through RO/Filtration and approx 130 m³/day RO permeate shall be used as makeup water for cooling tower. 20 m³/day RO reject shall be treated in MEE system. 644 m³/day industrial effluent shall be treated through pre-treatment, stripper and MEE system. 616 m³/day MEE condensate and 828 m³/day industrial effluent shall be treated in ETP. 1439 m³/day shall be treated in ETP by giving tertiary treatment. 739 m³/day ETP treated effluent will be passed through cartridge filter. 117 m³/day shall be used in cooling tower makeup and 622 m³/day to processing, APCM and washing purpose. 700 m³/day ETP treated effluent shall be treated through RO, MEE and approximately 505 m³/day RO permeate and 185 m³/day MEE condensate shall be used for boiler makeup. Domestic effluent of 100 m³/day shall be treated through Sewage Treatment Plant (STP) & treated water shall be used for greenbelt development and maintenance OR mixed with industrial effluent
- vi) As proposed, PP shall explore the possibility of reduction of Coal consumption gradually as primary fuel and replace with green fuel (Natural Gas, Agro-Briquettes).
- vii) No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.
- viii) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- ix) The project proponent shall comply with the environment norms for Pesticide Industry as notified by the Ministry of Environment, Forest and Climate Change, *vide* GSR 446(E), dated 13.6.2011 under the provisions of the Environment (Protection) Rules, 1986.
- x) All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.
- xi) The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.

- xii) The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
- xiii) The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- xiv) Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.
- xv) 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.
- xvi) The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- xvii) The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.

Any other item with permission of the Chair:

Agenda No. 52.6.

Setting up of a Synthetic Resins manufacturing unit of production capacity 4005 MT/M located at Plot No. 62 and 63, Survey No. 800, Soham Integrated Textile Park, Village: Mahijda, Taluka: Daskroi, Dist. Ahmedabad, Gujarat by M/s. Dharmit Composites Polymers - Consideration of EC

[Proposal No. IA/GJ/IND3/422392/2023; File No. IA-J-11011/137/2022-IA-II(I)]

1. The proposal was recommended by the EAC in its 52nd Meeting held on 30th-31st May, 2023. Subsequently, the PP vide e- mail 24.7.2023 requested for a modification of the Condition No-xii, Page no 33 of 148, as finally evaporation of effluent in Common Spray

Annexure-II

List of the Expert Appraisal Committee (Industry-3) members participated during Video Conferencing (VC) meeting

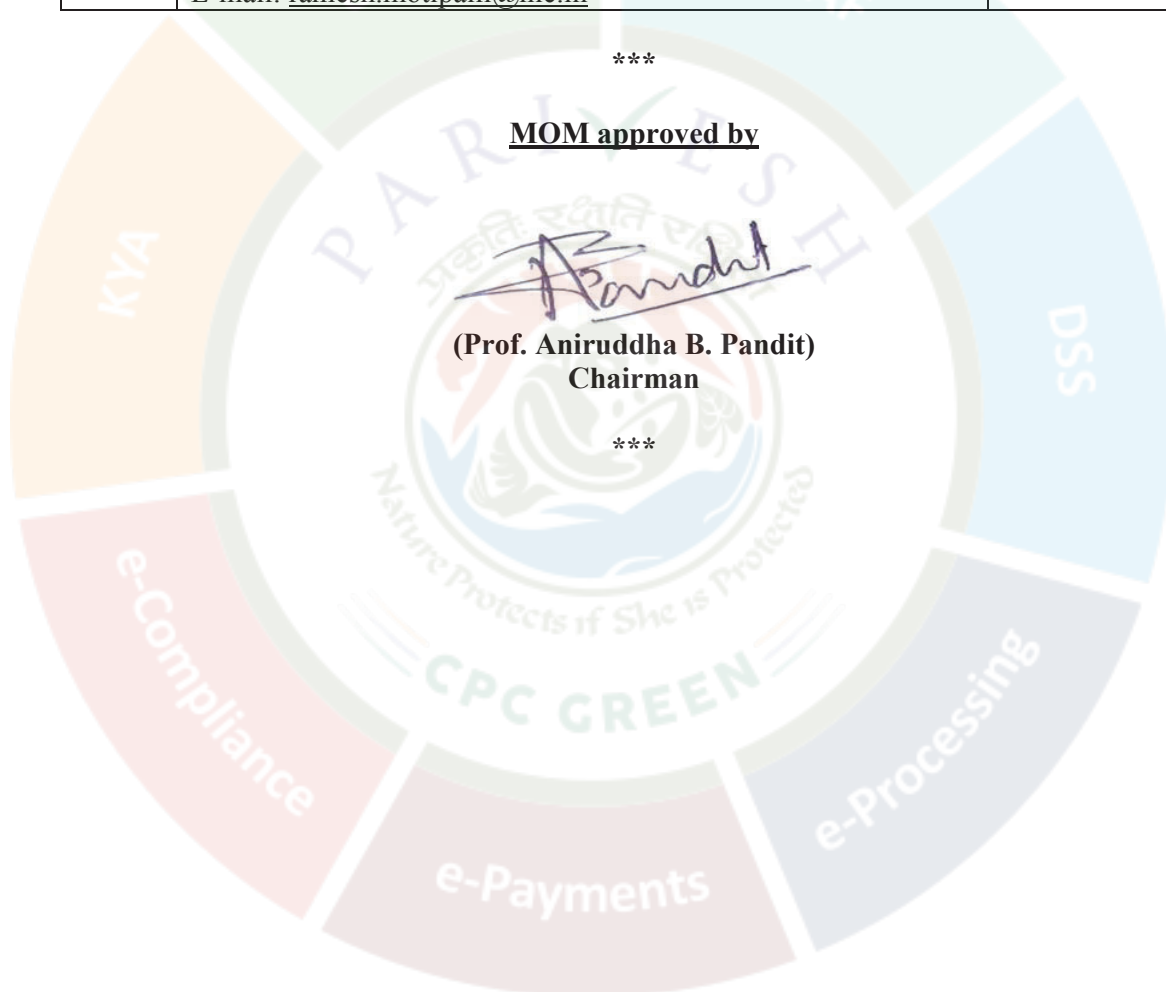
S. No.	Name of Member	Designation
1.	Prof. (Dr.) A.B. Pandit Vice Chancellor, Institute of Chemical Technology, Mumbai, Sir JC Bose Fellow, Government of India Email: ab.pandit@ictmumbai.edu.in	Chairman
2.	Dr. Ashok Kumar Saxena, IFS Bungalow No. 38, Sector-8A, Gandhinagar, Gujarat – 382008 E-mail: ashoksaxena1159@gmail.com	Member
3.	Prof. (Dr.) S. N. Upadhyay Research Professor (Hon.), Department of Chemical Engineering & Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi E-mail: snupadhyay.che@iitbhu.ac.in	Member
4.	Dr. Suresh Panwar House No.4, Gayateri Green Society, NH 58 Bypass, Kankerkhara, Meerut, Uttar Pradesh Email: spcpri@gmail.com	Member
5.	Shri Tukaram M Karne "SHREYAS ORNATE" F-1, 95-Tulasibagwale Colony, Sahakarnagar-2, PUNE: 411 009, Maharashtra E-mail: tmkarne@gmail.com	Member
6.	Shri Dinabandhu Gouda Additional Director, DH IPC-I, Room No. 309A, Third Floor, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 110032 E-mail: dinabandhu.cpcb@nic.in	Member
7.	Shri Sanjay Bisht Scientist 'E', Room No. 517, Office of the Director General of Meteorology, Indian Meteorological Department, Musam Bhawan, Lodhi Road, New Delhi -110003 E-mail: sanjay.bist@imd.gov.in	Member

8.	Dr. M. Ramesh Scientist 'E' Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan, Room No. V-203, Vayu Wing, Jor Bagh Road, New Delhi-110003 Tel. 011-20819338 E-mail: ramesh.motipalli@nic.in	Member Secretary
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MOM approved by



(Prof. Aniruddha B. Pandit)
Chairman



Signature Not Verified

Digitally Signed by : Mr A N Singh
Member Secretary, MoEFCC (EC)

Date: 15/11/2023