सत्यमेव जयते

File No.: J-11011/657/2007-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Dated **13/08/2023**

To,

Shri DVS Narayana Raju
M/s DECCAN FINE CHEMICALS INDIA PVT LTD
Deccan Fine Chemicals (India) Pvt. Ltd.8-2-293/82/A/7A, Roa No. 9,Jubilee Hills, Hyderabad, Telangana
krishnamurthy@deccanchemicals.com

Subject: **Proposed Expansion of Agrochemicals, Fine Chemicals, Biotech based Organic Chemicals, Establishment of Pharmaceutical Unit, Coal based Co-generation Plant, Chloralkali Unit and Desalination Plant along with inlet and outlet pipeline at Kesavaram village, Venkatanagaram Post, Payakaraopeta Mandal, Visakhapatnam District, Andhra Pradesh by M/s Deccan Fine Chemicals (India) Pvt. Ltd. - Amendment in Environmental Clearance-reg.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/AP/IND3/430384/2023 dated 23/05/2023 for grant of an amendment in prior Environmental Clearance (EC) to the 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.	EC23A2001AP5764079A
(ii) File No.	J-11011/657/2007-IA II (I)
(iii) Clearance Type	Amendment in EC
(iv) Category	A
(v) Schedule No./ Project Activity	5(b) Pesticides industry and pesticide specific intermediates (excluding formulations)
(vi) Sector	Industrial Projects - 3
(vii) Name of Project	Amendment in EC for change in boilers configuration, fresh water requirement and wastewater generation in existing EC issued for expansion of Agrochemicals, Fine Chemicals, establishment of pharmaceutical unit, coal-based Co-generation Power Plants, Chlor-Alkali Plant and Desalination plant along with inlet and outlet

	pipeline by M/s. Deccan Fine Chemicals (India) Private Limited
(viii) Location of Project (District, State)	ANAKAPALLI, ANDHRA PRADESH
(ix) Issuing Authority	MoEF&CC
(x) EC Date	31/07/2023
(xi) Applicability of General Conditions	NO
(xiii) Status of implementation of the project	

1. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C) were submitted to the MoEF&CC for an appraisal by the Expert Appraisal Committee EAC 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 the meeting held on 15/06/2023. 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.
3. The brief about the reasons for an amendment requested along with comparison table illustrating the details of amendments are annexed to this letter as **Annexure (1)**.
4. The EAC, in its meeting held on 15/06/2023, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of amendment in Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof.
5. The MoEF&CC has examined the proposal in accordance with the extant provisions of the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the Expert Appraisal Committee hereby accords amendment in Environment Clearance dated 23/05/2023 for the instant proposal to **M/s Deccan Fine Chemicals (India) Pvt. Ltd.** under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of EC conditions, general instructions issued vide EC letter dated and EC identification number IA/AP/IND3/430384/2023 and following additional specific conditions as mentioned below:
6. This issues with the approval of the Competent Authority

Annexure 1

Specific EC Conditions for (Chlor-alkali industry)

1. 1

Sr. No	EC Conditions
1.1	The PP shall also explore possibility of using clean fuels and adopt latest technologies to optimise energy consumption and reduction of CO_2 emissions in a phased manner.

Standard EC Conditions for (Chlor-alkali industry)

1

Sr. No	EC Conditions
1.1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification,

Sr. No	EC Conditions
	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.

Annexure 2

Amendment Logs

Description	Reference	Existing	Proposed / Amendment	Reason
Coal Consumption in EC dated 06.03.2017	Page No. 4 of 10. Point No. 3.0 Paragraph 1	Consumption of Coal is 108 MT/hr	Consumption of Coal is 106.5 MT/hr	Change in Boiler Configuration reduced coal consumption quantity.
Total power requirement in EC dated 06.03.2017	Page No. 4 of 10. Point No. 3.0 Paragraph 1	The total power requirement will be met from co-generation power plants of 1 x 12 MW and 3 x 25 MW capacity	The total power requirement will be met from co-generation power plants of 1 x 37 MW (instead of one 12 MW and one 25 MW) and 2 x 25 MW capacity	Change in Boiler Configuration. Reduced total steam required from 730 TPH to 720 TPH. Retaining total power requirement of 87 MW
Proposed Boilers capacities in EC dated 06.03.2017	Page No. 4 of 10. Point No. 3.0 Paragraph 1	Coal will be used for fuel for proposed 3 x 160 TPH, 1 x 80 TPH, 2 x 75 TPH boilers	Coal will be used for fuel for proposed 1 x 160 TPH, 1 x 130 TPH, 1 x 185 TPH, 3 x 75 TPH boilers	Change in Boiler Configuration. Reduced total steam required from 730 TPH to 720 TPH
Total Water requirement in EC dated 06.03.2017	Page No. 4 of 10. Point No. 3.0 Paragraph 2	The Total water requirement will be 24.37 MLD (Phase I: 10.07 MLD and Phase II: 14.30 MLD)	The Total water requirement will be 28.113 MLD (Phase I: 13.85 MLD and Phase II: 14.263 MLD)	High efficiency Desalination plants used for generation of water, permeate quantity increased from 30% to 34.6%. As a result, there will not be any increase in Sea Water intake quantity
Sea Water intake in EC dated 06.03.2017	Page No. 4 of 10. Point No. 3.0 Paragraph 2	The required water drawn from proposed desalination plant using seawater through water pipeline as input with capacity of 33.567	The required water drawn from proposed desalination plant using seawater through water pipeline as input with capacity of 46.10 MLD	The existing pipe line of 1000 mm diameter is adequate because of quantity of incoming Sea Water will not increase.

Description	Reference	Existing	Proposed / Amendment	Reason
		MLD for Phase I 47.677 MLD for Phase II	for Phase I 35.144 MLD for Phase II	
Treated effluent quantity in EC dated 06.03.2017	Page No. 5 of 10. Point No. 3.0 Paragraph 1	Total quantity of treated effluent discharged to the sea through marine outfall facilities will be 11749 KLD	Total quantity of treated effluent discharged to the sea through marine outfall facilities will be 15426 KLD.	The existing pipe line of 1000 mm diameter is adequate because of quantity of outgoing Sea Water will not increase
Desalination RO Rejects in EC dated 06.03.2017	Page No. 5 of 10. Point No. 3.0 Paragraph 1	Quantity of RO Rejects from desalination plants discharged to the sea through marine outfall facilities will be 56874 KLD (Phase I: 23497 KLD Phase II: 33377 KLD)	Quantity of RO Rejects from desalination plants discharged to the sea through marine outfall facilities will be 53131 KLD (Phase I: 32250 KLD Phase II: 20881 KLD)	Slight reduction in quantity of RO rejects due to usage of high efficiency membranes
Total fresh water requirement	Page No. 6of 10. A. Specific condition vi point	Total fresh water requirement from sea shall not exceed 33.567 MLD for phase I, 47.677 MLD for phase II and prior permission shall be obtained from the concerned authority	Total fresh water requirement from sea shall not exceed 46.10 MLD for Phase I, 35.144 MLD for Phase II and prior permission shall be obtained from the concerned authority.	There is a slight increase in fresh water requirement due to usage of water cooled condenser instead of air cooled condenser. However, there is no increase in quantity of intake water and discharge water.

Copy To

1. ANDHRA PRADESH ENVIRONMENT MANAGEMENT CORPORATION LTD Environment, Forests, Science & Technology Department, Government of Andhra Pradesh #56-2-11, 2nd Floor, AP.Markfed Building, APIIC Colony, Jawahar Auto Nagar, Vijayawada-520007
2. Inspector General of Forests, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Vijayawada Green House, Gopalareddy Road, Vijayawada – 520010, Andhra Pradesh
3. The Member Secretary, Andhra Pradesh Pollution Control Board, Paryavaran Bhavan, APIIC Colony Road, Gurunanak Colony, Autonagar, Vijayawada- 520007.
4. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 32
5. The District Collector, District **Visakhapatnam**, Andhra Pradesh
6. Guard File/Monitoring File/PARIVESH

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

Dated: 07.07.2023

MINUTES OF THE 53rd EXPERT APPRAISAL COMMITTEE (INDUSTRY-3 SECTOR) MEETING HELD ON 14th-16th June, 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 52nd EAC Meeting and Agenda No. 49.20

The EAC noted that the final minutes of the 52nd EAC meeting held on 30-31 May, 2023 were issued after incorporating the comments offered by the members and approved by the Chairman. The EAC confirmed the MoM with the following modifications (52.15 & 52.16) based on the request of the Project Proponents (PPs).

Agenda No. 52.15

Proposed Expansion of the Specialty Chemicals (Organic Products) Production Capacity: 2955 MT/Annum to 3020 MT/Annum and no change of Inorganic Products Production Capacity: 60300 MT/Annum & CPP in existing unit located at Plot Nos. 2, 4 to 13, 14/1, 2, 3, 19, 20 to 58, Surat Navsari Road, Village: Bhestan, Tehsil: Chorasi, District: Surat, Gujarat by M/s. Navin Fluorine International Ltd. - Consideration of EC

[Proposal No. IA/GJ/IND3/429642/2023; File No. IA-J-11011/181/2022-IA-II(I)]

1. The proposal was recommended by the EAC in its 52nd Meeting held on 30th-31st May, 2023 and the MoM were published on 12.6.2023. Subsequently, the PP vide e-mail dated 14.6.2023 requested the following modification in the MoM:

- The requisite consents, as applicable, under the provisions of the Air Act, 1981 and Water Act, 1974 etc. shall be obtained.
- Along with hydrogen, harnessing the oxygen produced from electrolysis may also be explored.
- Life Cycle Analysis (cradle to grave) of the Various methods of Hydrogen Generation as a comparative study to assess the overall Environmental benefit of the proposed methods of Green Hydrogen and Ammonia Synthesis may be taken up separately in due course under the guidance of MNRE.

Agenda No. 53.7.

Proposed Expansion of Agrochemicals, Fine Chemicals, Biotech based Organic Chemicals, Establishment of Pharmaceutical Unit, Coal based Co-generation Plant, Chloralkali Unit and Desalination Plant along with inlet and outlet pipeline at Kesavaram village, Venkatanagaram Post, Payakaraopeta Mandal, Visakhapatnam District, Andhra Pradesh by M/s Deccan Fine Chemicals (India) Pvt. Ltd. - Amendment in Environmental Clearance

Proposal No. IA/AP/IND3/430384/2023; File No. J-11011/657/2007-IA II (I)]

1. The proposal is for amendment in the Environmental Clearance (EC) granted by the Ministry vide letter no. J-11011/657/2007-IA II (I) dated 06.03.2017 for the Proposed Expansion of Agrochemicals, Fine Chemicals, Biotech based Organic Chemicals, Establishment of Pharmaceutical Unit, Coal based Co-generation Plant, Chloralkali Unit and Desalination Plant along with inlet and outlet pipeline at Kesavaram village, Venkatanagaram Post, Payakaraopeta Mandal, Visakhapatnam District, Andhra Pradesh by M/s Deccan Fine Chemicals (India) Pvt. Ltd.

2. The PP reported that there is a need for change in boilers configuration, fresh water requirement and wastewater generation in existing EC issued for expansion of Agrochemicals, Fine Chemicals, establishment of pharmaceutical unit, coal-based Co-Generation Power Plants, Chlor-Alkali Plant and Desalination plant along with inlet and outlet pipeline.

3. Accordingly, the project proponent has requested for amendment in the EC with the details as under:

S. No	EC Reference	As mentioned, in EC order dt. 06.03.2017	To be amended as	Justification
1	Page No. 4 of 10. Point No. 3.0 Paragraph 1	The total power requirement will be met from co-generation power plants of 1 x 12 MW and 3 x 25 MW capacity.	The total power requirement will be met from co-generation power plants of **1 x 37 MW** and **2 x 25 MW** capacity.	Change in Boiler Configuration. **Reduced** total steam required- from 730 TPH to 720 TPH. Retaining total power requirement of 87 MW.

2	Page No. 4 of 10. Point No. 3.0 Paragraph 1	Coal will be used for fuel for proposed 3 x 160 TPH, 1 x 80 TPH, 2 x 75 TPH boilers.	Coal will be used for fuel for proposed **1 x 160 TPH, 1 x 130 TPH, 1 x 185 TPH, 3 x 75 TPH boilers**.	Change in Boiler Configuration. **Reduced** total steam required from 730 TPH to 720 TPH.
3	Page No. 4 of 10. Point No. 3.0 Paragraph 1	Consumption of Coal is 108 MT/hr	Consumption of Coal is **106.5 MT/hr**	Change in Boiler configuration **reduced,** coal consumption quantity.
4	Page No. 4 of 10. Point No. 3.0 Paragraph 2	The Total water requirement will be 24.37 MLD (Phase I: 10.07 MLD and Phase II: 14.30 MLD)	The Total water requirement will be **28.113 MLD** (Phase I: **13.85 MLD** and Phase II: **14.263 MLD**)	The site is very close to the Sea and water is drawn from desalination plant. The yield from the desalination plant is 34.6% instead of 30% as envisaged initially. As a result, there will not be any increase in Sea Water intake quantity.
5	Page No. 4 of 10. Point No. 3.0 Paragraph 2	The required water drawn from proposed desalination plant using seawater through water pipeline as input with capacity of 33.567 MLD for Phase I 47.677 MLD for Phase II	The required water drawn from proposed desalination plant using seawater through water pipeline as input with capacity of **46.10 MLD** for Phase I **35.144 MLD** for Phase II	
6	Page No. 5 of 10. Point No. 3.0 Paragraph 1	Total quantity of treated effluent discharged to the sea through marine outfall facilities will be 11749 KLD	Total quantity of treated effluent discharged to the sea through marine outfall facilities will be **15426 KLD**.	Increase in cooling tower blow downs due to increase in thermal efficiency throough the adoption of water-cooled condenser (WCC) for Co-generation plants.
7	Page No. 5 of 10. Point No. 3.0 Paragraph 1	Quantity of RO Rejects from desalination plants discharged to the sea through marine outfall facilities will be 56874 KLD (Phase I: 23497 KLD Phase II: 33377 KLD)	Quantity of RO Rejects from desalination plants discharged to the sea through marine outfall facilities will be **53131 KL**D (Phase I: **32250 KLD** Phase II: **20881 KLD**)	Slight reduction in quantity of RO rejects due to usage of high efficiency membranes as a result **permeate quantity increased from 30% to 34.6%.**

8	Page No. 6 of 10. A. Specific condition vi point	Total fresh water requirement from sea shall not exceed 33.567 MLD for phase I, 47.677 MLD for phase II and prior permission shall be obtained from the concerned authority.	Total fresh water requirement from sea shall not exceed **46.10 MLD** for Phase I, **35.144 MLD** for Phase II and prior permission shall be obtained from the concerned authority.	There is a slight increase in fresh water requirement due to usage of water-cooled condenser instead of air-cooled condenser. However, there is no increase in the quantity of intake water and discharge water in to the Sea due to usage of high efficiency imported membrane systems used in Desalination Plants.

Boiler Configuration

S. No	Description	Total as Per EC Dt. 06.03.2017		After Amendment	
		Capacity (TPH)	Power (MW)	Capacity (TPH)	Power (MW)
1	Coal Fired Boiler	3 x 160	3 x 25	1 x 160	1 x 25
2	Coal Fired Boiler	-----	-----	1 x 130	1 x 25
3	Coal Fired Boiler	-----	-----	1 x 185	1 x 37
4	Coal Fired Boiler	1 x 80	1 x 12	1 x 75	-----
5	Coal Fired Boiler	2 x 75	-----	2 x 75	-----
6	Coal Fired Boiler	1 x 20	-----	1 x 20	-----
	Total	**730**	**87**	**720**	**87**

Desalination Plant Intake and Rejects

S. No	Purpose	Quantity (MLD)					
		EC Dt. 06.03.2017			After Amendment		
		Phase I	Phase II	Total	Phase I	Phase II	Total
1	Sea Water Intake	33.567	47.677	81.244	46.10	35.144	81.244
2	**Permeate used in Plant Operations and Process**	**10.07**	**14.30**	**24.37**	**13.85**	**14.263**	**28.113**
3	RO Rejects	23.497	33.377	56.874	32.25	20.881	53.131
	RO Permeate Efficiency %			**30%**			**34.6%**

Total Water Required and Effluent Generation

S. No	Purpose	Quantity (MLD)			
		Fresh Water		Effluent	
		EC Dated 06.03.2017	After Amendment	EC Dated 06.03.2017	After Amendment
1	Process Water - Argo Chemicals and Fine Chemicals	1.856	1.856	2.237	2.237
2	Process Water - Active Pharma Ingredients	0.912	0.912	0.98	0.98
3	Cooling Towers	13.195	16.95	7.248	10.928
4	Co-generation Power Plant	5.275	5.275	0.48	0.48

5	Boiler	0.856	0.844	0.214	0.211
6	Chlor-Alkali Plant	2.1	2.1	0.49	0.49
7	Domestic	0.12	0.12	0.1	0.1
8	Horticulture	0.056	0.056	----	---
	Total – I	**24.37**	**28.113**	**11.749**	**15.426**
	Desalination Plant Rejects - II			**56.874**	**53.131**
	Grand Total (I + II)			**68.623**	**68.557**

4. **Deliberations by the EAC**:

The EAC constituted under the provisions of the EIA Notification, 2006 and comprising of expert members /domain experts in various fields, examined the proposal submitted by the PP in desired form.

The EAC inter-alia, deliberated on the details of existing greenbelt, change of fuel for boilers from coal to gas and response from competent authority of fuel supply in future and advised the PP to submit the following:

- Details of existing greenbelt developed.
- Plan to change the fuel of boilers from coal to gas and response from competent authority for fuel and supply in future.

The PP submitted the revised/updated information/documents of the same and the EAC found it to be satisfactory.

5. After detailed deliberations, the EAC **recommended** the amendment in EC, subject to the following additional condition:

The PP shall also explore possibility of using clean fuels and adopt latest technologies to optimise energy consumption and reduction of CO_2 emissions in a phased manner.

Agenda No. 53.8

Establishment of Drug Intermediates manufacturing unit of production capacity 13.5 TPM located at Plot No. 40, Kadechur Industrial area, Yadagir Taluk & District, Karnataka by M/s. Dorasani Life Sciences Pvt. Ltd. - Consideration of EC

[Proposal No. IA/KA/IND3/430025/2023; File No. IA-J-11011/26/2023-IA-II(I)]

The PP vide email dated 12.6.2023 informed that due to unavoidable circumstances, they/ Consultant would be unable to attend the meeting and requested to defer the proposal.

The proposal was accordingly, **deferred.**

Annexure-III

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** Bunglow 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,Kankerkhera, Meerut, Uttar Pradesh Email-spcppri@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.	**Prof. (Dr.) Suneet Dwivedi,** Professor in K Banerjee Centre of Atmospheric and Ocean Studies, University of Allahabad, Allahabad - 02 Uttar Pradesh E-mail:dwivedisuneet@rediffmail.com /suneetdwivedi@gmail.com	Member
7.	**Shri Santosh Gondhalkar** 'Shree' Apartment, Flat 401, Plot No. 22, Tukaram Society, Santnagar, Pune- 411009 E-mail: santoshgo@gmail.com	Member

8.	**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
9.	**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
10.	**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

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Signature Not Verified

Digitally Signed by : Dr Motipalli Ramesh
Member Secretary, MoEFCC (EC)

Date: 28/08/2023