



**By Speed Post/Online**

**F. No. J-11011/664/2008-IA II (I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**Impact Assessment Division**

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Indira Paryavaran Bhawan,  
Vayu Wing, 3<sup>rd</sup> Floor, Aliganj,  
Jor Bagh Road, New Delhi-110 003

**Dated: 18<sup>th</sup> June, 2021**

To,

**M/s Chambal Fertilisers and Chemicals Ltd.,**  
P.O Gadepan, District Kota,  
Rajasthan

Email: upendra.singh@chambal.in

**Sub: CFCL Fertilizer Plant, Gadepan by M/s Chambal Fertilisers and Chemicals Ltd. located at P.O Gadepan, District Kota, Rajasthan- Amalgamation and Amendment in Environment Clearances - regarding**

- Ref: (i) Ministry's letter No. J-11011/2/1996-IA II(I), dated 24.07.1996  
(ii) Ministry's letter No. J-11011/152/2006-IA.II (I), dated 21.05.2007 and subsequently amended on 18.09.2007  
(iii) Ministry's letter No. J-11011/664/2008-IA.II (I), dated 22.04.2010 and subsequently amended on 10.06.2011  
(iv) Ministry's letter No. J-11011/664/2008-IA.II (I), dated 22.06.2015 for extension of validity of Environmental clearance

Sir,

This has reference to your online proposal No. IA/RJ/IND3/193237/2021, dated 20<sup>th</sup> January, 2021 for amalgamation of environmental clearances granted by the Ministry vide letters dated 24.07.1996, 21.05.2007, 18.09.2007, 22.04.2010, 10.06.2011, 22.06.2015 in favour of M/s Chambal Fertilizers and Chemicals Ltd. (CFCL) and amendment in environmental clearance for the project Expansion of Fertilizer and Chemicals Unit at Gadepan, Kota, Rajasthan by M/s Chambal Fertilizers and Chemicals Ltd. (CFCL).

2. The details of the earlier environmental clearances granted to M/s Chambal Fertilizers and Chemicals Ltd and the details of the amendment sought is as under:-

S. No.	Plant/ Equipment/ Facility	Existing Configuration	Proposed Configuration	Final configuration after amendment	Remarks
1	Urea (G-III)	4000 MTPD (EC dated 10.06.2011)	200 MTPD	4200 MTPD	Increase in production by 200 MTPD (Shifted from G-II)
2	Ammonia (G-I)	3900 MTPD	(-) 150	3750 MTPD	Reduction in



	+ G-II)	(EC dated 18.09.2007)	MTPD		production of G-II and shifting the same to G-III Plant
3	Aux Boiler-III Steam (G-II)	160 TPH	0	160 TPH	No Change
4	Ammonia (G-III)	2200 (EC dated 10.06.2011)	150	2350	Increase in production by 150 MTPD (Shifted from G-II)
5	Captive Power Plant (G-I)	37 MWH	0	37 MWH	No Change
6	Plot Area for expansion	400 Ha (EC dated 18.09.2007)	0	400 Ha	No Change
7	Urea (G-I + G-II)	6800 MTPD (EC dated 18.09.2007)	(-) 200 MTPD	6600 MTPD	Reduction in production of G-II and shifting the same to G-III Plant
8	Captive Power Plant (G-III)	18 MWH (EC dated 10.06.2011)	0	18 MWH	No Change
9	HRSG-III Steam (G-III)	100 TPH (EC dated 10.06.2011)	0	100 TPH	No Change
10	HRSG-I + HRSG-II Steam (G-I)	140 TPH	0	140 TPH	No Change
11	Aux Boiler-I + Aux Boiler-II Steam (G-I)	160 TPH	0	160 TPH	No Change

3. M/s CFCL Gadepan plant having three operational units i.e. Gadepan I, II & III. The plants were commissioned in 1994, 1999 and 2019, respectively. Latest environmental clearance was granted by this Ministry for the expansion of project by setting up G-III unit within the existing plant premises vide letter no. J-11011/664/2008-IA II (I) dated 22.04.2010, amended (corrigendum) in EC issued on 10.06.2011 and validity extension was issued on 22.06.2015. All three plants are operational and has valid CTO granted by RSPCB.

4. The total project cost including environmental controlling equipment's is Rs. 9136 Crores (G-1:1982 Cr, G-II:1214 Cr, G-III:5940 Cr). No additional cost is envisaged in the proposed proposal. Total Employment in the plant is 1020 persons.

5. After Amalgamation and Amendment, the total water and freshwater requirement of whole plant will reduce from 52744 KLD to 52371 KLD, respectively. Water will be available from the River Kalisindh. There will not be any additional drawl of fresh water from River Kalisindh.

6. After Amalgamation and Amendment, the total effluent generation from whole plant will reduce from 11352 KLD to 11305 KLD. Effluent will be treated in respective treatment facilities (ETP, RO- ZLD Plant) and treated effluent will be reused in the plant for process



and gardening. Only during rainy season (when there is sufficient flow in river for dilution), the treated water of G-I & G-II plant from holding pond is discharged to the Kalisindh River. G-III plant is Zero Liquid Discharge plant. Effluent from G-III Plant is treated in RO-ZLD Plant, no change from earlier practice. No change in domestic effluent is proposed. Total domestic effluent from whole plant (1272 KLD) will be treated in three no. of STPs and reused in gardening.

7. The power requirement of the plant is being met by in-house Captive power plant (CPP) in G-I and G-III of capacity 37 MWH and 18 MWH, respectively. The power is being generated by Natural gas-based Gas turbines. The flue gas from turbine is being used for heat recovery in HRSG to generate steam for plant operations. Plant is also having additional source of power supply from state grid for backup. After Amalgamation & Amendment, the additional power and steam requirement for G-III will be sourced through G-III -CPP.

8. Existing units (G-I & G-II) have Natural gas based 2x 80 TPH and 1x 160 TPH steam boiler. No additional Boiler is proposed. 30 m and 35 m stack height for 80 TPH and 160 TPH boilers respectively, have been provided for controlling the emissions within the statutory limit.

9. **Details of Process and utilities emissions generation and its management is mentioned below:**

Particular	Stack Height (m)	Stack Dia (m)	Parameter	Standards
G-I				
Auxiliary Boiler-I (80 TPH)	30	2.0	NOx	50 ppm
Auxiliary Boiler-II (80 TPH)	30	2.0	NOx	50 ppm
HRSG-I (70 TPH)	30	3.0	NOx	50 ppm
HRSG-II (70 TPH)	30	3.0	NOx	50 ppm
Prilling Tower-I	104	26.0	PM	50 mg/Nm <sup>3</sup>
			Ammonia	175 mg/Nm <sup>3</sup>
Primary Reformer-Ammonia-I	40	3.0	NOx	400 mg/Nm <sup>3</sup>
EDG Set (1.6 MW)	19	0.45	PM	75 mg/Nm <sup>3</sup>
			NMHC	150 mg/Nm <sup>3</sup>
			CO	150 mg/Nm <sup>3</sup>
			NOx	1100 ppm
G-II				
Auxiliary Boiler No. III (160TPH)	35	2.5	NOx	50 ppm
Prilling Tower-II	118	26	PM	50 mg/Nm <sup>3</sup>
			Ammonia	175 mg/Nm <sup>3</sup>
Primary Reformer - Ammonia-II	55	4.1	NOx	400 mg/Nm <sup>3</sup>
EDG Set (2.5 MW)	30	0.9	PM	75 mg/Nm <sup>3</sup>
			NMHC	150 mg/Nm <sup>3</sup>



			CO	150 mg/Nm <sup>3</sup>
			NOx	1100 ppm
<b>G-III</b>				
HRSG CPP (100 TPH)	43.5	3.0	NOx	100 mg/Nm <sup>3</sup>
Prilling Tower	141.5	28.0	PM	50 mg/Nm <sup>3</sup>
			Ammonia	175 mg/Nm <sup>3</sup>
Primary Reformer - Ammonia-III	53.8	4.1	NOx	400 mg/Nm <sup>3</sup>
EDG Set (2.4 MW)	30	0.5	PM	75 mg/Nm <sup>3</sup>
			NMHC	150 mg/Nm <sup>3</sup>
			CO	150 mg/Nm <sup>3</sup>
			NOx	710 ppm
Dedusting Unit- G-I (Scrubber Packing Plant)	37.00	1.000	PM	150 mg/Nm <sup>3</sup>
Dedusting Unit - G-II (Scrubber Packing Plant)	35.73	0.400	PM	150 mg/Nm <sup>3</sup>
Dedusting Unit - G-III (Scrubber Packing Plant)	37	1.1	PM	150 mg/Nm <sup>3</sup>
Dedusting Unit Screen House (Scrubber Screen House)	27.80	0.650	PM	150 mg/Nm <sup>3</sup>
Dedusting Unit-G-III Screen House (Scrubber Screen House)	34	0.8	PM	150 mg/Nm <sup>3</sup>

**10. Details of Solid Hazardous Waste Management:**

S. No	Name of Waste	Total Quantity (G-I +G-II+G-III)	After Amalgamation and Amendment Total Quantity (G-I+G-II+G-III)	Impact after Amalgamation and Amendment	Disposal Method
1	Discarded Containers	1000 nos per year	1000 nos per year	No Change	TSDF Udaipur
2	Used/Spent Oil	107 MTPA	107 MTPA	No Change	Recycler
3	Spent Catalyst	660 MTPA	660 MTPA	No Change	Recycler
4	RO & ZLD sludge	17000 MTPA	17000 MTPA	No Change	TSDF site at Udaipur
5	Contaminated Cotton Rags/other cleaning materials	12.00 MTPA	12.00 MTPA	No Change	Common Incinerator



11. The project proponent has submitted that during rainy times the land gets saturated with water, hence the treated effluent cannot be used for irrigation even after 4-5 days after stoppage of rains. During these 4-5 days of post rain also, treated effluent has to be discharged in to the River. Considering all above facts, requested the Committee to consider following for CFCL:

*"Industry is permitted to continue to discharge treated effluent water to the River Kalisindh as per existing conditions and whenever the rainfall is more than 5 mm in a day, then also industry is allowed to make consequential discharge for 5 days succeeding the rainy days, following the existing practice of intimation to SPCB."*

Further, they have submitted the last 5 years of the rainfall (precipitation) data at CFCL – Gadepan area. The total and daily average precipitation for the rainy months of June to September from year 2016 to 2020 are as below.

Year	2016	2017	2018	2019	2020
Total precipitation (June to Sept) - mm	933	351	1119	1586	544
Average daily precipitation June to Sept - mm	7.78	2.93	9.33	13.22	4.54

12. The proposal was considered by the **EAC (Industry 3 Sector) in its meetings held during 1-2<sup>nd</sup> February, 2021, 22 -23<sup>rd</sup> February, 2021, and 18-19<sup>th</sup> May, 2021**. The project proponent and their consultant M/s. EQMS India Pvt. Ltd., made a detailed presentation through Video Conferencing (VC) and have presented the addendum to EIA report.

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given undertaking 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 report. 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 project proponent.

The EAC deliberated the proposal and made due diligence for amalgamation and amendment as stated above. The EAC after detailed deliberation recommended the proposal for amalgamation and amendment in the EC with all other conditions shall remain unchanged as stipulated in the previous ECs.

13. Based on recommendations of EAC and submission of the project proponent, the Committee, after detailed deliberation, has recommended the following amendments in the earlier environmental clearances:

(a) The details of the product and capacities are as under:-

S. No.	Product	Unit	Existing as per EC & CTO	Total (Exist	Proposed/ Amendment	Total After Amalgamation
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			G-I with CPP	G-II	G-III	ing)	G-I with CPP	G-II	G-III	and Amendment
1	Ammonia	MTPD	2000	1900	2200	6100	2000	1750	2350	6100
2	Urea	MTPD	3500	3300	4000	10800	3500	3100	4200	10800
3	Captive Power Plant	MWH	37	0	18	55	37	0	18	55
4	Steam (HSRG)	TPH	140	0	100	240	140	0	100	240
5	Steam (Boiler)	TPH	160	160	0	320	160	160	0	320

- (b) Para 5 A.(v) of the environmental clearance dated 21.05.2007 shall be read as under:-

*".....The discharge from G-I and G-II plant in the Kalisindh River be permitted only during the rainy season when the precipitation value is more than 5 mm in a day, after meeting the stringent norms as prescribed. During non-monsoon season, when precipitation is less than 5 mm in day (threshold value), the discharge from G-I & G-II plant in the Kalisindh River is not permitted and shall be ZLD system. The Committee further desired that the concerned State Pollution Control Board from time to time shall monitor discharge from G-I & G-II plant in the Kalisindh River and ensure strict compliance of the same and report this non-compliance, if any, to this Ministry. The State Pollution Control Board shall also ensure that the River water quality remains un-deteriorated".*

14. All other terms and conditions stipulated in the earlier environmental clearances dated 24.07.1996, 21.05.2007, 18.09.2007, 22.04.2010, 10.06.2011 and 22.06.2015 shall remain unchanged.

15. This issues with approval of the competent authority.

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(डा. आर. बी. लाल)  
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Min. of Environment, Forest and Climate Change  
भारत सरकार, नई दिल्ली  
Govt. of India, New Delhi

**Copy to: -**

1. The Secretary, Forests & Environment Department, Government of Rajasthan, Vaniki Path, Near Secretariat, Jaipur-302005
2. The Secretary, Irrigation Department, Government of Rajasthan, Vaniki Path, Near Secretariat, Jaipur-302005
3. The Deputy Director General of Forests (C), Integrated Regional Office Jaipur, A-209 & 218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur, Rajasthan-304002

4. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
5. The Member Secretary, Rajasthan State Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongri, Jaipur, Rajasthan 302004-For necessary compliances, as stated above.
6. District Magistrate, Kota, Rajasthan
7. Guard File/Monitoring File/Parivesh portal/Record File



**(Dr. R. B. Lal)**  
**Scientist 'E'/Additional Director**