



सत्यमेव जयते

**Government of India  
Ministry of Environment, Forest and Climate Change**



Date: **06/02/2024**

**ACKNOWLEDGEMENT**

This is to acknowledge that Matix Fertilisers and Chemicals Limited has provided the information on PARIVESH Portal in respect of "NO INCREASE IN POLLUTION LOAD" with 15% Enhancement in the Existing Production Capacity of Ammonia - Urea Fertilizer Plant at Panagarh Industrial Park, Durgapur Tehsil, Purba Bardhaman District, West Bengal by M/s. Matix Fertilisers And Chemicals Limited in the format attached herewith under the provisions of Para 7(ii) b of EIA Notification, 2006 and its subsequent amendment S.O.980 (E), dated 02nd March 2021.

To claim exemption from obtaining Prior Environment Clearance under the provisions of Para 7(ii) b of EIA Notification, 2006 and its subsequent amendment S.O 980 (E) dated 02nd March 2021 in respect of any increase in production capacity with or without any change in (i) raw material-mix or (ii) product-mix or (iii) quantities within products or (iv) number of products including new products falling in the same category or (v) configuration of the plant or process or (vi) operations in existing area or (vii) In areas contiguous to the existing area specified in the environmental clearance of the project, the project proponent / SPCB or UTPCC shall follow the following process:

1. The project proponent shall inform the SPCB or UTPCC, as the case may be, in specified format along with: (i) 'No increase in Pollution Load' certificate from the Environmental Auditor or reputed institutions empanelled by the SPCB or UTPCC or CPCB or Ministry; (ii) last Consent to Operate certificate for the project or activity; and (iii) online system generated acknowledgement of uploading of intimation and 'no increase in pollution load' certificate on PARIVESH Portal.
2. Based on the submission of above information, the project proponent may carry on the proposed activity as per the submitted details. However, if on verification the SPCB or UTPCC, as the case may be, holds that the change or expansion or modernization will result or has resulted in increase in pollution load, the exemption claimed under this clause shall not be valid and it shall be deemed that the project proponent was liable to obtain Prior Environmental Clearance before under taking such changes or increase, as per the clause (a) of sub-paragraph (ii) of paragraph 7 of EIA Notification, 2006 and the provisions of Environment (Protection) Act, 1986 shall apply accordingly.

Encl: Attached the Information provided by the project proponent

[CAFForm 10](#)

**Application for No Increase in Pollution Load - Form-10**

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**Basic Details**

<b>1.</b>	Whether Project /Activity accorded prior EC?		Yes
<b>1.1.</b>	IA/WB/IND2/68492/2010		
Proposal No.			
<b>1.2.</b>	"No Increase in Pollution Load" with 15% enhancement in the existing production capacity of Ammonia - Urea Fertilizer Plant at Panagarh Industrial Park, Durgapur Tehsil, Purba Bardhaman District, West Bengal by M/s. Matix Fertilisers And Chemicals Limited		
Name of Project			
<b>1.3.</b>	7(ii) (b)		
Whether the Project Activity attracts the provisions under			
<b>1.3.1.</b>	Category		A
<b>1.3.2.</b>	Whether Project/Activity falls in the category of Processing or Production or Manufacturing Sectors?		Yes
<b>1.3.3.</b>	Whether multiple items (Components) as per the notification involved in the proposal?		No
<b>1.3.3.1.</b>	Item No. as per schedule to EIA Notification, 2006 for Major Activity	5(a) Chemical fertilizers	Urea
<b>1.3.3.2.</b>	Capacity	1405250	TPA
<b>1.3.3.3.</b>	Whether Project/Activity falls in 'B2' Category		No
<b>2.</b>	Whether the project proposed to be located in the Notified industrial area?		No

**3. Details of Consent under Air (P&CP) Act, 1981 & Water (P&CP) Act, 1974**

Consent No/Application No	Date	Valid Up to	Copy of Consent order
Lr. No. C0123385 and Memo no. 805-7/WPBD - Cont (6726) /15 (pt -1)	29/04/2022	30/04/2027	Consent to operate 2022.pdf Preview

#### 4. Details of Authorization under Hazardous & Other Waste Management Rules, 2016 and subsequent amendment

Authorization No./ Application No	Date	Valid Up to	Copy of Authorization order
Memo no. 151/2S (HW) – 3084/2015	16/11/2021	31/05/2025	Hazardous Waste Authorization.pdf Preview

### Product Details

#### 1. Details of products & by-products including changes in product mix

List of products/by-products permitted under EC / CTO with CAS Number	Quantity permitted under EC / CTO	Unit	List of products/by-products proposed under clause 7(ii)(b) with CAS Number	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
Urea	3850	TPD	Urea	4430	TPD	15% increase in the production capacity
Ammonia	2200	TPD	Ammonia	2530	TPD	15% increase in the production capacity
Captive Power in MW	54	TPD	Captive Power in MW	54	TPD	There is no increase in the captive power generation

#### 2. Details of Raw materials including water consumption and fuel consumption including changes in the raw material mix

List of raw materials envisaged under EC / CTO with CAS Number	Quantity permitted under EC/CTO	Unit	List of raw materials proposed under clause 7(ii)(b)	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
Fresh Water in KLD	30800	TPD	Fresh Water in KLD	30800	TPD	There is no change in the raw material and quantity
Coal Bedded Methane/Natural Gas	39918.96	TPM	Coal Bedded Methane/Natural Gas	45906.80	TPM	15% increase in the requirement of CBM/NG
<b>2.1.</b> Approval for additional water consumption if applicable						No

### 3.Details of Effluent Generation

#### 3.1.Quantity

Propose	Quantity of existing effluent generati on in KLD (as per EC/CTO)	Quantity of effluent generation after the proposed change in product or raw material mix in KLD	Mode of Disposal Ultimate Receiving Body
Other	4824	4824	Treated effluent of 4824 KLD conforming to norms will be utilized for green belt development, make up water streams and the remaining let to Damodar river as per the EC amendment file no. J11011/440/ 2009/-IA II (I) dated 19.12.2023 and same is mentioned in CTO issued by WBPCB.

### 3.2. Quality

Composition as per the EC/CTO	Concentration as per EC/CTO in (mg/L)	Composition after proposed change in product or raw material mix	Concentration after proposed change in product or raw material mix in (mg/L)	Remarks, if any
Zinc	1.0	Zinc	1.0	No change in composition
Iron	1	Iron	1	No change in composition
Phosphate	5	Phosphate	5	No change in composition
Chromium	0.2	Chromium	0.2	No change in composition
pH	8.5	pH	8.5	No change
Total Kjheldhal Nitrogen as N	75	Total Kjheldhal Nitrogen as N	75	No change in composition
Copper	1	Copper	1	No change in composition
Ammonical Nitrogen as N	50	Ammonical Nitrogen as N	50	No change in composition
Free Ammonical Nitrogen	2	Free Ammonical Nitrogen	2	No change in composition
TSS	100	TSS	100	No change in composition
Cyanide (CN)	0.1	Cyanide (CN)	0.1	No change in composition
Nitrate Nitrogen as N	10	Nitrate Nitrogen as N	10	No change in composition
Free Available Chlorine	0.5	Free Available Chlorine	0.5	No change in composition
Oil & Grease	10	Oil & Grease	10	No change in composition

### 3.3. Total load in respect of Effluent

Total load in respect of Effluent as per the EC/CTO	Treatment facility existing (with capacity in KLD)	Total load in respect of Effluent after proposed change in product or raw material mix in KLD	Treatment facility proposed with capacity after proposed change in product or raw material mix in KLD	Remarks if any
4824	0	4824	8400	There is no change in the effluent concentration and generation. existing treatment units were ETP Capacity - 8400 KLD & STP Capacity - 720 KLD

### 3.4.Details of effluent management

<b>3.4.1.</b> Whether Segregation of Concentrated stream and its disposal is proposed?	Yes
<b>3.4.1.1.</b> Brief report on Segregation of Concentrated stream and its disposal	report on segregation of concentrated stream.pdf Preview
<b>7.4.2.</b> Whether Reduction / Recycle / Reuse of effluent are proposed?	Yes
<b>7.4.2.1.</b> Brief report on details of Reduction / Recycle / Reuse of effluent	report on details of Reduction or Recycle or Reuse of effluent.pdf Preview
<b>7.4.3.</b> Whether any additional Effluent Treatment Facilities Provided?	No
<b>7.4.4.</b> Whether is there any proposal for up-gradation of ETP?	No
<b>7.4.5.</b> Whether the unit is having Membership of Common Effluent Conveyance / Disposal Facility?	No
<b>7.4.6.</b> Whether it is Proposed to achieve zero discharge?	No
<b>7.4.7.</b> Whether Project has Membership of CETP?	No

## Emission Generation

### 1.Details of Emission Generation

#### 1.1.

#### Quantity

#### (i) From Stacks

Point Source (s)	Height of stack (m)	As per EC / CTO			After the proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
Auxiliary Boiler (S1) -	35	3.85	g/s	332.65	Kg Per	3.85	g/s	332.65	Kg Per

Point Source (s)	Height of stack (m)	As per EC / CTO			After the proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
NOx					Day				Day
Heat Recovery Steam generator (S2) - PM	34.7	5.7	g/s	492.5	Kg Per Day	5.7	g/s	492.5	Kg Per Day
Reformer Stack (S3) - NOx	60	11.75	g/s	1015.2	Kg Per Day	16.2	g/s	1399.7	Kg Per Day
DG Sets - 2 x 1800 KVA (S5) - PM	30	0.25	g/s	21.6	Kg Per Day	0.25	g/s	21.6	Kg Per Day
Auxiliary Boiler (S1) - PM	35	1.93	g/s	166.75	Kg Per Day	1.93	g/s	166.75	Kg Per Day
Heat Recovery Steam generator (S2) - NOx	34.7	11.4	g/s	985	Kg Per Day	11.4	g/s	985	Kg Per Day
Prilling Tower (S4) - PM	127.3	95.2	g/s	8225.3	Kg Per Day	131.5	g/s	11361.3	Kg Per Day

**(ii) From Fugitive sources**

Fugitive Sources	Height of discharge in m	As per EC / CTO			After the proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
NH3 at ETP area	0	1.23	Mg/Cu.M	1.23	Mg/Cu.M	1.23	Mg/Cu.M	1.23	Mg/Cu.M
CO2 at Ammonia Reformer area	0	11.89	Mg/Cu.M	11.89	Mg/Cu.M	11.89	Mg/Cu.M	11.89	Mg/Cu.M
CO at ETP area	0	0.336	Mg/Cu.M	0.336	Mg/Cu.M	0.336	Mg/Cu.M	0.336	Mg/Cu.M
NH3 at Urea Prilling Tower Area	0	5.93	Mg/Cu.M	5.93	Mg/Cu.M	5.93	Mg/Cu.M	5.93	Mg/Cu.M
CO2 at ETP area	0	12.38	Mg/Cu.M	12.38	Mg/Cu.M	12.38	Mg/Cu.M	12.38	Mg/Cu.M
CO at Ammonia Reformer area	0	0.3261	Mg/Cu.M	0.3261	Mg/Cu.M	0.3261	Mg/Cu.M	0.3261	Mg/Cu.M
CO2 at Urea Prilling Tower Area	0	11.76	Mg/Cu.M	11.76	Mg/Cu.M	11.76	Mg/Cu.M	11.76	Mg/Cu.M

**(iii) From other sources**

Other Source(s)	Height of discharge in m	As per EC / CTO			After proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
nil	0	0		0	g/s	0	g/s	0	g/s

## 1.2.

### Quality

Stack attached to	Stack Height in Meter	APCM	Parameter	Concentration			
				As per EC / CTO	Unit	After the proposed change in product or raw material mix	Unit
DG Sets - 2 x 1800 KVA (S5)	30	Acoustic enclosures with adequate stack height	CO in (%v/v)	1	Others	1	Others
Heat Recovery Steam Generator (S2)	34.7	Low burners	NOx CO in (%v/v)	1	Miligram per Normal cubic meter (mg/Nm3)	1	Miligram per Normal cubic meter (mg/Nm3)
Auxiliary Boiler (S1)	35	Low burners	NOx SPM	50	Miligram per Normal cubic meter (mg/Nm3)	50	Miligram per Normal cubic meter (mg/Nm3)
DG Sets - 2 x 1800 KVA (S5)	30	Acoustic enclosures with adequate stack height	SPM	150	Miligram per Normal cubic meter (mg/Nm3)	150	Miligram per Normal cubic meter (mg/Nm3)
Heat Recovery Steam Generator (S2)	34.7	Low burners	NOx SPM	50	Miligram per Normal cubic meter (mg/Nm3)	50	Miligram per Normal cubic meter (mg/Nm3)
Auxiliary Boiler (S1)	35	Low burners	NOx CO in (%v/v)	1	Others	1	Others
Reformer Stack (S3)	60	Low burners	NOx	400	Miligram per Normal cubic meter (mg/Nm3)	400	Miligram per Normal cubic meter (mg/Nm3)
Prilling Tower	127.3	Natural Drift Prilling Tower	SPM	50	Miligram per Normal cubic meter (mg/Nm3)	50	Miligram per Normal cubic meter (mg/Nm3)

## 2.

### Total load in respect of Emission

Total load in respect of emission as per the EC / CTO	Unit	APCM existing with capacity	Unit	Total load in respect of emission after proposed change in product or raw material mix	Unit	APCM proposed with capacity after proposed change in product or raw material mix	Unit	Remarks if any
1015.2	Kg Per Day	572245	Standard Cubic meter per hour (SCMH)	1399.6	Kg Per Day	572245	Standard Cubic meter per hour (SCMH)	The pollution load (NOx) connected to reformer stack (S3) w.r.t. 100% production and 115% production has been changed but are within design emission rate. NOx concentration will be within the Standards with 15% increase in the production.
332.65	Kg Per Day	138883	Standard Cubic meter per hour (SCMH)	332.65	Kg Per Day	138883	Standard Cubic meter per hour (SCMH)	There is no change in the total emission load of NOx and APCM capacity connected to the Auxiliary boiler (S1) - present in non-operation
166.75	Kg Per Day	138883	Standard Cubic meter per hour (SCMH)	166.75	Kg Per Day	138883	Standard Cubic meter per hour (SCMH)	There is no change in the total emission load of PM and APCM capacity connected to the Auxiliary boiler (S1) - present in non-operation
985	Kg Per Day	410000	Standard Cubic meter per hour (SCMH)	985	Kg Per Day	410000	Standard Cubic meter per hour (SCMH)	There is no change in the total emission load of NOx and APCM capacity connected to the HRSG (S2)
8225.3	Kg Per Day	3080	Others	11361.3	Kg Per Day	3080	Others	The pollution load (PM) connected to Prilling Tower (S4) w.r.t. 100% production and 115% production has been changed but are within design emission rate. PM concentration will be within the Standards with 15% increase in the production
492.5	Kg Per Day	410000	Standard Cubic meter per hour (SCMH)	492.5	Kg Per Day	410000	Standard Cubic meter per hour (SCMH)	There is no change in the total emission load of PM and APCM capacity connected to the HRSG (S2)
21.6	Kg Per Day	5976	Standard Cubic meter per hour (SCMH)	21.6	Kg Per Day	5976	Standard Cubic meter per hour (SCMH)	There is no change in the total emission load of PM

### 3.Details of emission management

3.1.	No
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Whether there is any Proposal for switching over to cleaner fuel?	
3.2. Whether there is any Proposal for the up gradation of existing APCM? (with the time-bound program)	No
3.3. Whether there is Proposal for the installation of new APCM? (with time-bound program)	No

## 1. Hazardous Waste Generation

### 1.1.

#### Quantity and type of waste

Type of Waste	Category (As per Schedule under Hazardous & Other Waste Management Rules, 2016)	Generation per Year						
		Existing as per the EC / CTO	Unit	After Change in Product Mix	Unit	Source of Generation	Mode of Storage	Mode of Treatment & Disposal method
Contaminated plastic, empty containers	33.1	50	Tons per Annum (TPA)	50	Tons per Annum (TPA)	Process Operations	Stored in MS drums	Recycling/disposal through CHWTSDF
Carbon residue	18.2	150	Tons per Annum (TPA)	150	Tons per Annum (TPA)	Process operations	Stored in MS drums	Recycling/disposal through CHWTSDF
Contaminated Cotton	5.2	10	Tons per Annum (TPA)	10	Tons per Annum (TPA)	Process operations	stored in drums	To CHWTSDF
Spent Catalyst	18.1	500	Tons per Annum (TPA)	500	Tons per Annum (TPA)	Ammonia Process	LDPE lined concret pit	Recycling/disposal through CHWTSDF
Spent resins	35.2	60	Tons per Annum (TPA)	60	Tons per Annum (TPA)	Process Operations	Stored in drums	Recycling/disposal through CHWTSDF
ETP sludge	35.3	3	Tons per Annum (TPA)	3	Tons per Annum (TPA)	Operation of ETP	Sealed Carboys	Disposal through CHWTSDF
Used oil	5.1	42	Tons per Annum	42	Tons per Annum	Operation of DG sets	Stored in MS drums	Recycling through authorized recyclers

Type of Waste	Category (As per Schedule under Hazardous & Other Waste Management Rules, 2016)	Generation per Year						
		Existing as per the EC / CTO	Unit	After Change in Product Mix	Unit	Source of Generation	Mode of Storage	Mode of Treatment & Disposal method
			(TPA)		(TPA)			
Used Insulation	other wastes	50	Tons per Annum (TPA)	50	Tons per Annum (TPA)	--	stored in drums	To CHWTSDF
Oil Contaminated Sludge and Filter	3.3	3	Tons per Annum (TPA)	3	Tons per Annum (TPA)	Process Operations	Stored in drums	Recycling/disposal through CHWTSDF

## 1.2.

### Details of Waste management

1.2.1. Whether Proposal for reduction / recovery / reuse / recycle / sale of waste (with technical details) is proposed?	No
1.2.2. Whether Project has Membership of Common Secured Landfill Site?	No
1.2.3. Whether Project has Membership of Common hazardous waste incineration facility	No

## 2.

### No Increase in Pollution Load certificates from the authorized environmental auditor and countersigned by Project Proponent

2.1. Authorized environmental auditor/Reputed Institution Empaneled by the SPCB/CPCB/MoEFCC	Authorized Environmental Auditors
2.2. Upload the Certificate of 'No Increase in Pollution' Load.	NIPL Certificate.pdf Preview

3.

### Online Continuous effluent/emission Monitoring System

Quantity

							Date of connection to the servers of	
Attribute	Constituents	Date of installation	Details calibration of OCEMS	No. of time data exceeds the limit	Value Exceeded	Status of OCEMS functioning	CPCB	SPCB
Emissions	Auxiliary Boiler - PM	06/07/2022	Monthly and or as per drift	0	0	Yes	06/10/2022	06/10/2022
Effluents	Flow of effluent discharge	07/07/2022	weekly twice	0	0	Yes	07/10/2022	07/10/2022
Effluents	NH4 - N	07/07/2022	weekly twice	0	0	Yes	07/10/2022	07/10/2022
Emissions	Reformer NOx	06/07/2022	Monthly and or as drift	0	0	Yes	06/10/2022	06/10/2022
Emissions	HRSG - PM	06/07/2022	Monthly and or as per drift	0	0	Yes	06/10/2022	06/10/2022
Effluents	pH	07/07/2022	Weekly twice	0	0	Yes	07/10/2022	07/10/2022

### 1. Additional Information

S. No.	Document Name	Remark	Document
1	Form - 10	Form - 10 NIPL Application	Form - 10.pdf Preview
2	NABET Copy	NABET Copy	NABET Copy.pdf Preview
3	Hazardous Waste Agreement	Hazardous Waste Agreement	HW Agreement 01-05-2021-30.04.2024.pdf Preview
4	NIPL report	NIPL report	NIPL report.pdf Preview
5	Topomap around 10 km radius	Topomap around 10 km radius	Topomap.pdf Preview
6	Land allotment letter from WBIDC	Land allotment letter from WBIDC	Land allotment letter from WBIDC.pdf Preview
7	Existing Water Balance	Existing Water Balance	Water Balance.pdf Preview
8	Authorization letter	Authorization letter	Authorization letter.pdf Preview
9	MFCL - site layout	MFCL - site layout	site layout.pdf Preview
10	Agreement with DVC	Agreement with DVC for supplying fresh water to the project	Water Supply from DVC Agreement.pdf Preview
11	Plant Capacity Certificate	Plant Capacity Certificate	Plant Capacity Certificate (Ammonia & Ures).pdf Preview
12	MFCL - existing CFE Copies	MFCL - existing CTE copies	MFCL - existing CTE copies.pdf Preview
13	MFCL Existing EC copies	MFCL Existing EC copies dated: 22.04.2010, 19.12.2013, 15.05.2015 & 23.02.2018	MFCL - Existing EC copies.pdf Preview

### 1. Undertaking

I hereby give undertaking that the data and information given in the application and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information is found to be false or misleading at

any stage, the project will be rejected and clearance given if any to the project will be revoked at our risk and cost. In addition to the above, I hereby give undertaking that no activity/construction/expansion has been taken up

<b>1.1.</b> Name	Bhim Singh
<b>1.2.</b> Designation	Dr. Rabindra Nath Sahu - General Manager (EHS&F)
<b>1.3.</b> Company	Matix Fertilisers and Chemicals Limited
<b>1.4.</b> Address	Matix Fertilisers and Chemicals Limited Panagarh Industrial Park, Panagarh, Dist.:Bardhaman, West B
<b>1.5.</b> Date	06-02-2024

